aiwa
SERVICE

XR-DV700 U(S)
XR-DV700 K(S)
XR-DV701 EZ(S)

SIMPLE-2

SERVICE MANUAL

MICRO COMPO STEREO/ DVD PLAYER BASIC DVD MECHANISM : DV32BF2

A part of contents is adequate.
Re-issuing is under request.

SYSTEM	DVD PLAYER	SUB WOOFER	SPEAKER
XR-DV700 U(S)	CX-SLDV700 U(S)	TS-SLW700 U(S)	SX-SLDV700YJSN
XR-DV700 K(S)	CX-SLDV700 K(S)	TS-SLW700 K(S)	
XR-DV701 EZ(S)	CX-SLDV701 EZ(S)	TS-SLW701 EZ(S)	

If requiring information about the SUB WOOFER, see Service Manual of TS-SLW700, S/M Code No.09-019-449-2R1.

aiwa

S/M Code No. 09-018-358-0N1

TABLE OF CONTENTS

SPECIFICATIONS 3
ACCESSORIES/PACKAGE LIST-1/1 4
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 5
Precaution to replace Optical block 6
ELECTRICAL MAIN PARTS LIST 7-14
BLOCK DIAGRAM-1/4 (EXCEPT DVD C.B) 15
BLOCK DIAGRAM-2/4 (MAIN : MICON BLOCK) 16
BLOCK DIAGRAM-3/4 (DVD-2/2 : DVD BLOCK) 17
BLOCK DIAGRAM-4/4 (DVD-2/2 : FRONT END) 18
WIRING-1/10 (FRONT, KEY, MOT-SW) 19
SCHEMATIC DIAGRAM-1/18 (FRONT, KEY, MOT-SW) 20
WIRING-2/10 (TUNER <U>) 21
SCHEMATIC DIAGRAM-2/18 (TUNER <U>) 22
WIRING-3/10 (TUNER <K, EZ>) 23
SCHEMATIC DIAGRAM-3/18 (TUNER <K, EZ>) 24
WIRING-4/10 (MAIN, FAN : COMPONENT) 25
WIRING-5/10 (MAIN, FAN : CONDUCTOR) 26
SCHEMATIC DIAGRAM-4/18 (MAIN-1/3 : MICON) 27
SCHEMATIC DIAGRAM-5/18 (MAIN-2/3 : AC3 FILTER) 28
SCHEMATIC DIAGRAM-6/18 (MAIN-3/3 : FUN, PRO LOGIC) 29
SCHEMATIC DIAGRAM-7/18 (FAN) 30
WIRING-6/10 (DVD : COMPONENT) 31
WIRING-7/10 (DVD : CONDUCTOR) 32
SCHEMATIC DIAGRAM-8/18 (DVD : RF AMP) 33
SCHEMATIC DIAGRAM-9/18 (DVD : DSP) 34
SCHEMATIC DIAGRAM-10/18 (DVD : AV DECODER) 35
SCHEMATIC DIAGRAM-11/18 (DVD : 5.1CH DECODER) 36
SCHEMATIC DIAGRAM-12/18 (DVD : VIDEO ENCODER) 37
SCHEMATIC DIAGRAM-13/18 (DVD : POWER, SPINDLE DRIVER) 38
SCHEMATIC DIAGRAM-14/18 (DVD : μ-COM) 39
SCHEMATIC DIAGRAM-15/18 (DVD : SYSCON) 40
WIRING-8/10 (SUPPLY, HP) 41
SCHEMATIC DIAGRAM-16/18 (SUPPLY, HP) 42
WIRING-9/10 (PT) 43
SCHEMATIC DIAGRAM-17/18 (PT) 44
WIRING-10/10 (JACK-SV, JACK-AU) 45
SCHEMATIC DIAGRAM-18/18 (JACK-SV, JACK-AU) 46
TRANSISTOR ILLUSTRATION-1/1 47
FL (BCQ-0) GRID ASSIGNMENT/ANODE CONNECTION-1/1 48
WAVE FORM 49-50
DVD TEST MODE 51-53
IC BLOCK DIAGRAM 54-57
IC DESCRIPTION 58-80
MECHANICAL PARTS LIST 81-82
MECHANICAL EXPLODED VIEW 83-88
SPEAKER PARTS LIST 89

SPECIFICATIONS
U MODEL

MAIN UNIT CX-LDV700

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	13.2 dBf
FM antenna terminals	75 ohms (unbalanced)
AM tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
AM usable sensitivity	350 µV/m
AM antenna	Loop antenna

DISC PLAYER

Laser	Semiconductor laser (DVD video discs λ = 650 nm, CDs λ = 780 nm)
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Signal format	NTSC color system
S-VIDEO OUT (S1)	Y output: 1 Vp-p (75 ohms, unbalanced) C output: 0.286 Vp-p
VIDEO OUT	Video composite output, 1 Vp-p (75 ohms, unbalanced), one RCA jack
Operating conditions	5°C to 35°C (41°F to 95°F)

GENERAL

Input	AUX: 400 mV
Output	TO TS-LW700U: Din 8-pin LINE OUT: 300 mV, 1 kohm DIGITAL OUT (OPTICAL) PHONES: 32 ohms or more
Power requirements	120 V AC, 60 Hz
Power consumption	25 W
Standby power consumption	ECO ON: 0.7 W ECO OFF: 9 W
Dimensions (W x H x D)	249 x 92 x 289 mm (9 7/8 x 3 5/8 x 11 1/2 in.)
Weight	3.6 kg (7 lbs 15 oz)

SUB WOOFER TS-LW700

Input	FROM CX-LDV700U: DIN 8-pin
Output	FRONT: IMP. 8 ohms CENTER: IMP. 8 ohms SURROUND: IMP. 8 ohms
Power output	Front: 30 W + 30 W (40 Hz - 20 kHz, THD less than 1 %, 8 ohms) 37 W + 37 W (1 kHz, THD 10 %, 8 ohms) Rear (Surround): 30 W + 30 W (40 Hz - 20 kHz, THD less than 1 %, 8 ohms) 37 W + 37 W (1 kHz, THD 10 %, 8 ohms) Center: 30 W (40 Hz - 20 kHz, THD less than 1 %, 8 ohms) 37 W (1 kHz, THD 10 %, 8 ohms) Subwoofer: 55 W (40 Hz - 200 Hz, THD less than 1 %, 6 ohms) 68 W (60 Hz, THD 10 %, 6 ohms)
Speaker type	Bass reflex type, (Magnetic shielded
Speaker unit	160 mm (6 3/8 in.)
Frequency response	40 Hz - 200 Hz
Power requirements	120 V AC, 60 Hz
Power consumption	170 W
Dimensions (W x H x D)	220 x 383 x 450 mm (8 3/4 x 15 1/8 x 17 3/4 in.)
Weight	12 kg (26 lb. 7 oz)

FIVE SURROUND SPEAKERS SYSTEM SX-L700
(Front, surround and center speakers)

Speaker system	1 way (magnetic shielded*)
Speaker units	80 mm (3 1/4 in.) cone
Impedance	Front: 8 ohms Surround: 8 ohms Center: 8 ohms
Dimensions (W x H x D)	100 x 220 x 115 mm (4 x 8 3/4 x 4 5/8 in.) (with pedestal) 100 x 110 x 115 mm (4 x 4 3/8 x 4 5/8 in) (without pedestal)
Weight	0.55 kg (1 lbs 3 oz)

* The surround speakers are not magnetic shielded.

K, EZ MODEL

MAIN UNIT CX-LDV700, CX-LDV701

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	16.8 dBf
FM antenna terminal	75 ohms (unbalanced)
MW tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
MW usable sensitivity	350 µV/m
LW tuning range	144 kHz to 290 kHz
LW usable sensitivity	1400 µV/m
MW/LW antenna	Loop antenna

DISC PLAYER

Laser	Semiconductor laser (DVD video discs λ = 650 nm, CDs λ = 780 nm)
Signal-to-noise ratio	90 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Signal format	PAL colour system (VCD: PAL/AUTO/NTSC selectable)
S-VIDEO OUT (S1)	Y output: 1 Vp-p (75 ohms, unbalanced) C output: 0.286 Vp-p
VIDEO OUT	Video composite output, 1 Vp-p (75 ohms, unbalanced), one RCA jack
Operating conditions	5°C to 35°C (41°F to 95°F)

GENERAL

Input	AUX: 400 mV
Output	TO TS-LW700K: Din 8-pin TO TS-LW701EZ: Din 8-pin LINE OUT: 300 mV, 1 kohm DIGITAL OUT (OPTICAL) PHONES: 32 ohms or more
Power requirements	230 V AC, 50 Hz
Power consumption	31 W
Standby power consumption	ECO ON: 0.8 W ECO OFF: 9 W
Dimensions (W x H x D)	249 x 92 x 289 mm
Weight	3.6 kg

SUB WOOFER TS-LW700 TS-LW701

Input (K MODEL) (EZ MODEL)	FROM CX-LDV700K: DIN 8-pin FROM CX-LDV701EZ: DIN 8-pin
Output	FRONT: IMP. 8 ohms CENTER: IMP. 8 ohms SURROUND: IMP. 8 ohms
Power output (K MODEL)	Front: Rated: 30 W + 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W + 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) Rear (Surround): Rated: 30 W + 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W + 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) Centre: Rated: 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) Subwoofer: Rated: 55 W (6 ohms, T.H.D. 1 %, 60 Hz/DIN 45500) Reference: 68 W (6 ohms, T.H.D. 10 %, 60 Hz/DIN 45324)
Power output (EZ MODEL)	Front: Rated: 30 W + 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W + 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 69 W + 69 W Rear (Surround): Rated: 30 W + 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W + 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 69 W + 69 W Centre: Rated: 30 W (8 ohms, T.H.D. 1 %, 1 kHz/DIN 45500) Reference: 37 W (8 ohms, T.H.D. 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 69 W Subwoofer: Rated: 55 W (6 ohms, T.H.D. 1 %, 60 Hz/DIN 45500) Reference: 68 W (6 ohms, T.H.D. 10 %, 60 Hz/DIN 45324) DIN MUSIC POWER: 109 W
Speaker type	Bass reflex type, (Magnetic shielded)
Speaker unit	160 mm
Power requirements	230 V AC, 50 Hz
Power consumption (K MODEL)	210 W
(EZ MODEL)	200 W
Dimensions (W x H x D)	220 x 383 x 450 mm
Weight	12 kg

FIVE SURROUND SPEAKERS SYSTEM SX-L700
(Front, surround and centre speakers)

Speaker system	1 way (magnetic shielded*)
Speaker units	80 mm cone
Impedance	Front: 8 ohms Surround: 8 ohms Centre: 8 ohms
Dimensions (W x H x D)	100 x 220 x 115 mm (with pedestal) 100 x 110 x 115 mm (without pedestal)
Weight	0.55 kg

* The surround speakers are not magnetic shielded.

- Design and specifications are subject to change withoutnotice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧈ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
  Laboratories Licensing Corporation.
- Manufactured under license from Digital Theater Systems, Inc.
  US Pat. No.5,451,942 and other worldwide patents Issued and pending. "D T S" and "D T S Digital Surround" are trade marks of Digital Theater Systems, Inc. Systems, Inc. c 1996 Digital Theater systems, Inc. All rights reserved.

ACCESSORIES/PACKAGE LIST-1/1

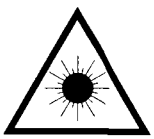
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CQA-907-010		IB,EZ(4L)M<701 EZSM>
1	8B-CQA-906-010		IB,EZ(5L)M<701 EZSM>
1	8B-CQA-905-010		IB,K(E)M<700 KSM>
1	8B-CQA-903-010		IB,U(ESF)M<700 USM>
2	8B-CQA-951-010		RC UNIT,RC-BAT08
3	8B-CQA-961-010		CORD ASSY,DIN 13P-5M<700 USM>
3	87-A80-167-010		CORD,PIN 1PY 150CM
4	87-006-225-010		AM LOOP ANT NC2<700 USM>
5	87-043-115-010		ANT,FEEDER FM<700 USM>
5	87-A90-118-010		ANT,WIRE FM (Z)<EXCEPT 700 USM>

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

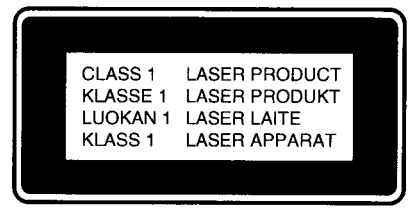
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

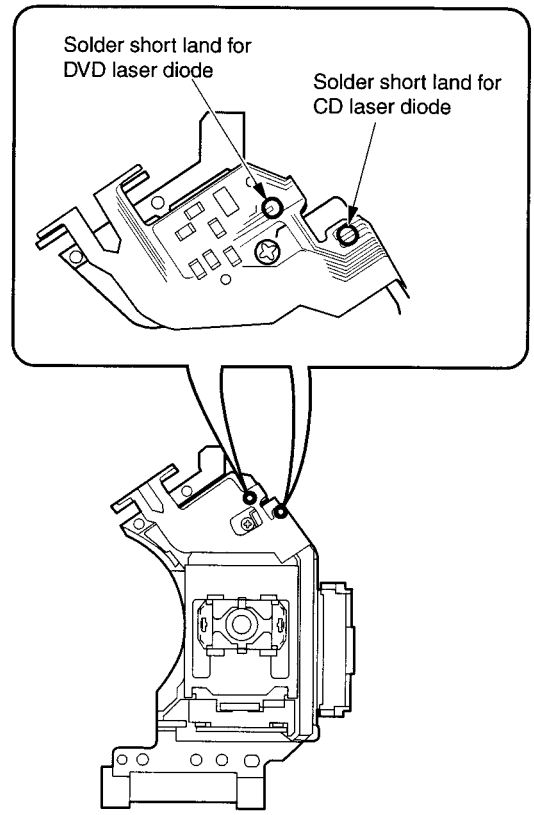


Precaution to replace Optical block (SF-HD3AV2)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.

SF-HD3AV2 (DV32BF2: M8-AZK-J93-070) MODEL



ELECTRICAL MAIN PARTS LIST-1/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-998-040		C-IC,HD74LV14AT
	87-A21-997-080		C-IC,HD74LV2G08A
	87-A21-968-030		C-IC,LC75824E
	8A-ZA7-804-010		C-IC,LC87F72C8A
	87-A22-043-010		IC,SPS-440-1-E1
	87-A20-712-040		C-IC,BA6417F
	87-A21-999-080		C-IC,HD74LV1G04A
	87-A20-925-040		C-IC,BA05FP
	87-A21-760-040		C-IC,NJM4580V
	8B-ZA6-602-030		C-IC,LC78661W
	8A-ZA7-802-040		C-IC,LC324265AT-25DV
	87-A21-309-040		C-IC,HD74LV74A
	8A-ZA7-800-010		C-IC,LA9702W-MPB
	8B-CQA-604-030		C-IC,LC877256V-5Y36
	87-A21-986-040		C-IC,HD74LV4066AT
	8A-ZA7-801-040		C-IC,LA6556L-TE-L
	87-A22-107-010		IC,SI-3123N
	87-A20-905-040		C-IC,BA033FP
	87-A22-034-010		IC,PQ1CF1
	87-A21-018-040		C-IC,M65849BFP631D
	87-A21-882-030		C-IC,M62466FP
	87-A21-991-030		C-IC,HD6412320VF25
	87-A21-763-040		C-IC,PST3430
	8B-ZA6-606-030		C-IC,M29W800AB(BZA)2
	87-A21-990-080		C-IC,HD74LV1G08A
	87-A21-941-030		C-IC,UT62L1024LC-70LL
	8Z-AV2-630-010		C-IC,L64021D
	87-A21-145-040		C-IC,BA4560F-E2
	87-A21-617-010		C-IC,HY57V161610DTC-8
	87-A22-042-040		C-IC,PLL1701
	87-A21-993-040		C-IC,PCM1742 KE
	87-A21-613-040		C-IC,SN74LV04APW
	87-A21-928-010		IC,LC72131D-N
	87-A20-913-010		IC,LA1837NL
	87-017-825-010		IC,GP1F32T
	87-A22-041-030		C-IC,ADV7170K
	87-A20-440-040		C-IC,BU1920FS<701 EZSM>
	87-A21-883-040		C-IC,CS8415A
	87-A21-884-040		C-IC,CS4228A
	87-001-607-080		C-IC,NJM4558M
	87-A21-755-040		C-IC,SN74LV541APW
	87-A21-987-040		C-IC,BA025
	87-A21-885-040		C-IC,CS49326
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-A30-076-080		C-TR,2SC3052F
	87-A30-198-080		TR,KTC3199GR<700 USM>
	87-A30-494-080		TR,2SA1980G
	87-A30-234-080		TR,CSC4115BC
	87-A30-075-080		C-TR,2SA1235F
	87-A30-427-040		C-TR,DTC114EKA
	87-A30-273-040		C-TR,DTC124EKA
	87-A30-257-080		C-TR,2SD1306E
	87-A30-466-040		C-TR,DTA144TKA
	87-A30-447-040		C-TR,DTA114EKA
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-435-040		C-TR,DTC144EK T146
	87-A30-087-080		C-FET,2SK2158
	89-211-323-080		C-TR,2SB1132R
	87-A30-484-080		C-TR,KRA102S
	89-333-265-040		C-TR,2SC3326A
	89-110-372-080		C-TR,2SA1037K(R)
	87-A30-516-040		C-FET,3LN01C-TB
	87-A30-448-040		C-TR,DTA123JKA
	87-A30-196-080		TR,2SC4115SRS
	87-026-470-080		TR,HN1C03F (0.3W)
	87-A30-282-040		C-TR,DTA114TKA
	87-A30-287-040		C-TR,DTC114TKA
	89-327-143-080		TR,2SC2714 (0.1W)
	87-A30-455-040		C-TR,DTA144EKA
	89-503-602-080		C-FET,2SK360E<EXCEPT 700 USM>
	87-A30-086-070		C-TR,CSD1306E<EXCEPT 700 USM>
	87-A30-074-080		C-TR,RT1P 141C<EXCEPT 700 USM>
DIODE			
	87-A40-524-040		C-DIODE,1SR154-400
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-270-080		C-DIODE,MC2838
	87-020-584-080		CHIP-ZENER,02CZ5.6Y
	87-017-779-080		C-DIODE,1SS355
	87-020-591-080		C-ZENER,02CZ 11Y
	87-020-339-080		CHIP DIODE,1SS226
	87-A40-269-080		C-DIODE,MC2836
	87-017-654-060		DIODE,GBU6J
	87-017-520-080		C-DIODE,SFPB52
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-234-080		ZENER,MTZJ5.6A
FRONT C.B			
C101	87-012-195-080		C-CAP,U 100P-50CH
C102	87-010-412-040		CAP,E 10-25 5L
C103	87-010-829-080		CAP, U 0.047-16
C104	87-010-829-080		CAP, U 0.047-16
C110	87-012-286-080		CAP, U 0.01-25
C111	87-012-274-080		CHIP CAP,U 1000P-50B
C112	87-010-560-040		CAP,E 10-50 GAS
C113	87-012-286-080		CAP, U 0.01-25
C114	87-012-286-080		CAP, U 0.01-25
C132	87-010-831-080		C-CAP,U,0.1-16F
C133	87-010-831-080		C-CAP,U,0.1-16F
C134	87-010-831-080		C-CAP,U,0.1-16F
CN101	87-A61-371-010		CONN,22P V BLK FMN-BTRK
CN102	87-099-203-010		CONN,10P 6216 H
LCD101	8B-CQ0-606-010		LCD,BCQ-0
LED101	87-A40-317-080		LED,SLR-342VCT31 RED
LED102	87-A92-218-010		LED, SMLU12E16C-LF73
LED103	87-A92-218-010		LED, SMLU12E16C-LF73
LED104	87-A92-078-010		LED, SMLU1D10CXM-SLF38
LED105	87-A92-078-010		LED, SMLU1D10CXM-SLF38
S101	87-A91-633-010		SW,RTRY XRE012103PVB25FINA 1-2
S111	87-A90-095-080		SW,TACT EVQ11G04M
S112	87-A90-095-080		SW,TACT EVQ11G04M
S113	87-A90-095-080		SW,TACT EVQ11G04M
S114	87-A90-095-080		SW,TACT EVQ11G04M
S115	87-A90-095-080		SW,TACT EVQ11G04M
S116	87-A90-095-080		SW,TACT EVQ11G04M
S117	87-A90-095-080		SW,TACT EVQ11G04M
KEY C.B			
C116	87-016-044-040		CAP,E 100-16 GAS
C117	87-012-286-080		CAP, U 0.01-25
C118	87-016-044-040		CAP,E 100-16 GAS
C130	87-010-831-080		C-CAP,U,0.1-16F
C135	87-012-286-080		CAP, U 0.01-25
C136	87-012-286-080		CAP, U 0.01-25
CN141	87-A60-077-010		CONN,10P H 9604S-10F
CN142	87-A60-082-010		CONN,05P H 9604S-05F
S110	87-A92-254-010		SW,PUSH 4-4-2 SPVF240100
S141	87-A90-095-080		SW,TACT EVQ11G04M

ELECTRICAL MAIN PARTS LIST-2/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
S142	87-A90-095-080		SW,TACT EVQ11G04M
S143	87-A90-095-080		SW,TACT EVQ11G04M
S144	87-A90-095-080		SW,TACT EVQ11G04M
S145	87-A90-095-080		SW,TACT EVQ11G04M
S146	87-A90-095-080		SW,TACT EVQ11G04M
S147	87-A90-095-080		SW,TACT EVQ11G04M
S148	87-A90-095-080		SW,TACT EVQ11G04M
S149	87-A90-095-080		SW,TACT EVQ11G04M
MOT-SW C.B			
CN151	87-A60-082-010		CONN,05P H 9604S-05F
M151	87-A90-036-010		MOT ASSY,RF-300CA-11
S151	87-A90-117-010		SW,PUSH 1-1-1 MPU103
S152	87-A90-117-010		SW,PUSH 1-1-1 MPU103
JACK-SV C.B			
C801	87-012-267-080		C-CAP,U 270P-50 B
C802	87-012-268-080		C-CAP,U 330P-50 B
C803	87-012-180-080		C-CAP,U 22P-50 CH
C804	87-012-267-080		C-CAP,U 270P-50 B
C805	87-012-268-080		C-CAP,U 330P-50 B
C806	87-012-180-080		C-CAP,U 22P-50 CH
C807	87-012-267-080		C-CAP,U 270P-50 B
C808	87-012-268-080		C-CAP,U 330P-50 B
C809	87-012-180-080		C-CAP,U 22P-50 CH
C810	87-010-555-040		CAP,E 100-10 GAS
C811	87-012-286-080		CAP, U 0.01-25
C812	87-012-286-080		CAP, U 0.01-25
C813	87-A12-319-080		C-CAP,U 0.1-25 K B
C814	87-012-188-080		C-CAP,U 47P-50 CH
C817	87-012-286-080		CAP, U 0.01-25
C818	87-010-552-040		CAP,E 22-16 GAS
C834	87-010-831-080		C-CAP,U,0.1-16F
C846	87-016-350-040		CAP,E 470-4 MA GAS
C847	87-016-350-040		CAP,E 470-4 MA GAS
C854	87-A12-319-080		C-CAP,U 0.1-25 K B<EXCEPT 700 USM>
C854	87-012-286-080		CAP, U 0.01-25<700 USM>
C860	87-012-286-080		CAP, U 0.01-25
C861	87-012-286-080		CAP, U 0.01-25
C862	87-012-286-080		CAP, U 0.01-25<700 USM>
CN801	87-A60-422-010		CONN,8P V TOC-B
CN802	87-A61-366-010		CONN,10P V BLK FMN-BTRK
CNA802	8B-CQA-641-010		CONN ASSY,2P V SHIELD
FB806	87-A91-364-080		C-F-BEAD, BK1608HS601
FB807	87-A91-364-080		C-F-BEAD, BK1608HS601
FB808	87-A91-364-080		C-F-BEAD, BK1608HS601
FB809	87-A91-364-080		C-F-BEAD, BK1608HS601
FB810	87-A91-364-080		C-F-BEAD, BK1608HS601
FB814	87-A91-364-080		C-F-BEAD, BK1608HS601
J801	87-A61-498-010		JACK,Y/C YKF51-5508
J802	87-A61-284-010		JACK,PIN 1P YEL YKC-21 TYPE C
J833	87-A61-202-010		JACK,DIN 8 P
L302	87-005-481-080		COIL,47UH J FLR50
L801	87-005-423-080		COIL,1.8UH K FLR50
L802	87-005-423-080		COIL,1.8UH K FLR50
L803	87-005-423-080		COIL,1.8UH K FLR50
T801	8A-MVS-608-010		COIL,SORTER-BALUN
T802	8A-MVS-608-010		COIL,SORTER-BALUN
T803	8A-MVS-608-010		COIL,SORTER-BALUN
JACK-AU C.B			
C819	87-012-274-080		CHIP CAP,U 1000P-50B
C820	87-012-274-080		CHIP CAP,U 1000P-50B
C829	87-012-274-080		CHIP CAP,U 1000P-50B
C830	87-012-274-080		CHIP CAP,U 1000P-50B
C852	87-012-286-080		CAP, U 0.01-25
C853	87-012-286-080		CAP, U 0.01-25
CN804	87-A61-100-010		CONN,7P V BLK FMN-BTRK
J803	87-009-610-010		JACK PIN 2P H EARH
J804	87-009-610-010		JACK PIN 2P H EARH
SUPPLY C.B			
C401	87-A10-011-090		CAP,E 2200-25 SMG
C402	87-A12-317-080		C-CAP,U 0.1-50 Z F
C403	87-A10-831-080		CAP,E 1000-25 M SMG
C404	87-A12-317-080		C-CAP,U 0.1-50 Z F
C405	87-010-831-080		C-CAP,U,0.1-16F
C406	87-010-831-080		C-CAP,U,0.1-16F
C407	87-A12-074-080		CAP,E 470-25 SMG
C408	87-A12-863-090		CAP,E 10000-16 SMG 85 L35.5<700 USM>
C408	87-A12-878-000		CAP,E 15000-16<EXCEPT 700 USM>
C409	87-A12-317-080		C-CAP,U 0.1-50 Z F
C410	87-A12-317-080		C-CAP,U 0.1-50 Z F
C411	87-010-831-080		C-CAP,U,0.1-16F
C412	87-010-831-080		C-CAP,U,0.1-16F
C413	87-012-286-080		CAP, U 0.01-25
C414	87-010-831-080		C-CAP,U,0.1-16F
C415	87-012-286-080		CAP, U 0.01-25
C416	87-010-831-080		C-CAP,U,0.1-16F
C418	87-A12-311-080		CAP,AS 100U-16 M FA
C419	87-A12-893-080		CAP, E 680-16 KZE
C420	87-012-286-080		CAP, U 0.01-25
C421	87-A12-311-080		CAP,AS 100U-16 M FA
C423	87-010-805-080		CAP, S 1-16
C424	87-012-286-080		CAP, U 0.01-25
C425	87-010-758-080		C-CAP,U 0.068-25F
C426	87-A11-057-080		C-CAP,U 0.1-16 K B
C432	87-010-831-080		C-CAP,U,0.1-16F
C433	87-010-831-080		C-CAP,U,0.1-16F
C434	87-010-831-080		C-CAP,U,0.1-16F
C435	87-010-385-080		CAP, E 220-25
C436	87-A12-893-080		CAP, E 680-16 KZE
C437	87-A12-096-080		CAP, E 220-50 SMG
CN401	87-009-195-010		CONN,5P B5BEH
CNA401	8B-CQA-640-010		CONN ASSY,9P V MAIN
CNA403	8B-CQA-639-010		CONN ASSY,9P V DVD
⚠F2	87-A91-939-080		PROTECTOR,2A 20P 60V<EXCEPT 700 USM>
⚠F2	87-A90-091-080		PROTECTOR, 2A 491<700 USM>
⚠F3	87-A91-939-080		PROTECTOR,2A 20P 60V<EXCEPT 700 USM>
⚠F3	87-A90-091-080		PROTECTOR, 2A 491<700 USM>
⚠F5	87-A91-945-080		PROTECTOR,5A 20P 60V<EXCEPT 700 USM>
⚠F5	87-026-681-080		PROTECTOR,5A 60V 491<700 USM>
⚠F401	87-A91-961-080		FUSE,1.25A 125V F 20N<700 USM>
⚠F402	87-A91-961-080		FUSE,1.25A 125V F 20N<700 USM>
⚠F403	87-A90-410-080		FUSE,0.5A 125V 251<700 USM>
⚠F403	87-A91-931-080		PROTECTOR,500MA 20P 60V<EXCEPT 700 USM>
⚠JW414	87-A91-935-080		PROTECTOR, 1A 20P 60V<EXCEPT 700 USM>
L401	87-A50-517-080		COIL,10UHK FLR88
L402	87-A50-549-010		COIL,68UH RCH110
L403	87-A50-549-010		COIL,68UH RCH110
HP C.B			
C701	87-012-274-080		CHIP CAP,U 1000P-50B
C702	87-012-274-080		CHIP CAP,U 1000P-50B
C703	87-010-831-080		C-CAP,U,0.1-16F
CNA701	88-805-053-260		CONN ASSY,5P 320MM
FB701	87-A91-364-080		C-F-BEAD, BK1608HS601
J701	87-A60-420-010		JACK,3.5 ST (MSC)
R701	87-008-372-080		FILTER, EMI BL OIRNI
R702	87-008-372-080		FILTER, EMI BL OIRNI

ELECTRICAL MAIN PARTS LIST-3/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
MAIN C.B			
C1	87-010-831-080		C-CAP,U,0.1-16F
C2	87-010-112-040		CAP,E 100-16
C3	87-010-496-040		CAP,E 3.3-50 GAS
C4	87-010-831-080		C-CAP,U,0.1-16F
C5	87-010-560-040		CAP,E 10-50 GAS
C6	87-010-560-040		CAP,E 10-50 GAS
C7	87-010-555-040		CAP,E 100-10 GAS
C8	87-010-555-040		CAP,E 100-10 GAS
C9	87-010-555-040		CAP,E 100-10 GAS
C10	87-A11-056-080		C-CAP,U 1-10 Z F
C11	87-A11-056-080		C-CAP,U 1-10 Z F
C12	87-010-831-080		C-CAP,U,0.1-16F
C13	87-010-831-080		C-CAP,U,0.1-16F
C15	87-010-112-040		CAP,E 100-16
C26	87-A11-049-080		C-CAP,U 1-6.3 K B
C27	87-A11-049-080		C-CAP,U 1-6.3 K B
C110	87-010-380-040		CAP,E 47-16 SME
C111	87-A10-260-080		C-CAP,U 0.1-16 K B
C114	87-012-193-080		C-CAP,U 82P-50 CH
C115	87-012-193-080		C-CAP,U 82P-50 CH
C116	87-012-193-080		C-CAP,U 82P-50 CH
C117	87-012-193-080		C-CAP,U 82P-50 CH
C118	87-012-196-080		C-CAP,U 120P-50 CH
C119	87-A11-049-080		C-CAP,U 1-6.3 K B
C120	87-A11-049-080		C-CAP,U 1-6.3 K B
C121	87-012-196-080		C-CAP,U 120P-50 CH
C122	87-012-196-080		C-CAP,U 120P-50 CH
C123	87-012-196-080		C-CAP,U 120P-50 CH
C124	87-012-196-080		C-CAP,U 120P-50 CH
C125	87-012-196-080		C-CAP,U 120P-50 CH
C126	87-012-196-080		C-CAP,U 120P-50 CH
C127	87-012-196-080		C-CAP,U 120P-50 CH
C128	87-012-196-080		C-CAP,U 120P-50 CH
C129	87-012-196-080		C-CAP,U 120P-50 CH
C130	87-012-196-080		C-CAP,U 120P-50 CH
C133	87-010-831-080		C-CAP,U,0.1-16F
C134	87-010-831-080		C-CAP,U,0.1-16F
C135	87-012-196-080		C-CAP,U 120P-50 CH
C136	87-012-196-080		C-CAP,U 120P-50 CH
C137	87-012-196-080		C-CAP,U 120P-50 CH
C139	87-A11-049-080		C-CAP,U 1-6.3 K B
C140	87-A11-049-080		C-CAP,U 1-6.3 K B
C141	87-012-196-080		C-CAP,U 120P-50 CH
C142	87-012-196-080		C-CAP,U 120P-50 CH
C143	87-012-196-080		C-CAP,U 120P-50 CH
C144	87-012-196-080		C-CAP,U 120P-50 CH
C145	87-012-196-080		C-CAP,U 120P-50 CH
C146	87-012-196-080		C-CAP,U 120P-50 CH
C147	87-012-196-080		C-CAP,U 120P-50 CH
C148	87-012-196-080		C-CAP,U 120P-50 CH
C149	87-012-196-080		C-CAP,U 120P-50 CH
C150	87-012-196-080		C-CAP,U 120P-50 CH
C153	87-010-831-080		C-CAP,U,0.1-16F
C154	87-010-831-080		C-CAP,U,0.1-16F
C156	87-010-831-080		C-CAP,U,0.1-16F
C157	87-010-831-080		C-CAP,U,0.1-16F
C159	87-A11-049-080		C-CAP,U 1-6.3 K B
C160	87-010-498-040		CAP,E 10-16 GAS
C161	87-012-196-080		C-CAP,U 120P-50 CH
C162	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C163	87-012-196-080		C-CAP,U 120P-50 CH
C164	87-016-118-080		C-CAP,U0.022-25BJ
C165	87-012-196-080		C-CAP,U 120P-50 CH
C166	87-016-118-080		C-CAP,U0.022-25BJ
C167	87-012-196-080		C-CAP,U 120P-50 CH
C168	87-016-118-080		C-CAP,U0.022-25BJ
C169	87-012-196-080		C-CAP,U 120P-50 CH
C170	87-016-118-080		C-CAP,U0.022-25BJ
C173	87-010-831-080		C-CAP,U,0.1-16F
C174	87-010-831-080		C-CAP,U,0.1-16F
C181	87-010-405-040		CAP,E 10-50
C183	87-016-114-080		C-CAP,U0.01-25B
C185	87-A10-504-080		C-CAP,U 0.047-16 K B
C186	87-010-831-080		C-CAP,U,0.1-16F
C187	87-010-831-080		C-CAP,U,0.1-16F
C191	87-010-112-040		CAP,E 100-16
C192	87-010-248-040		CAP,E 220-10 SME
C193	87-A11-049-080		C-CAP,U 1-6.3 K B
C194	87-A11-049-080		C-CAP,U 1-6.3 K B
C195	87-A11-049-080		C-CAP,U 1-6.3 K B
C196	87-A11-049-080		C-CAP,U 1-6.3 K B
C210	87-A11-049-080		C-CAP,U 1-6.3 K B
C211	87-A11-049-080		C-CAP,U 1-6.3 K B
C221	87-A11-049-080		C-CAP,U 1-6.3 K B
C222	87-A11-049-080		C-CAP,U 1-6.3 K B
C241	87-A11-049-080		C-CAP,U 1-6.3 K B
C242	87-A11-049-080		C-CAP,U 1-6.3 K B
C261	87-A11-049-080		C-CAP,U 1-6.3 K B
C262	87-010-405-040		CAP,E 10-50
C292	87-012-195-080		C-CAP,U 100P-50CH
C293	87-016-044-040		CAP,E 100-16 GAS
C294	87-010-831-080		C-CAP,U,0.1-16F
C303	87-010-785-080		C-CAP,U0.015-25BK
C304	87-010-831-080		C-CAP,U,0.1-16F
C305	87-010-831-080		C-CAP,U,0.1-16F
C306	87-012-195-080		C-CAP,U 100P-50CH
C307	87-012-178-080		C-CAP,U 18P-50 CH
C308	87-012-198-080		CAP 180P
C309	87-012-274-080		CHIP CAP,U 1000P-50B
C310	87-010-831-080		C-CAP,U,0.1-16F
C311	87-012-278-080		C-CAP,U 2200P-50 B
C312	87-A10-781-080		C-CAP,U 0.15-10 K B
C313	87-010-831-080		C-CAP,U,0.1-16F
C316	87-010-831-080		C-CAP,U,0.1-16F
C318	87-010-831-080		C-CAP,U,0.1-16F
C325	87-010-248-040		CAP,E 220-10 SME
C552	87-010-553-040		CAP,E 47-16 GAS
C556	87-A11-058-080		C-CAP,U 0.22-10 K B
C557	87-A11-058-080		C-CAP,U 0.22-10 K B
C558	87-010-831-080		C-CAP,U,0.1-16F
C559	87-A11-058-080		C-CAP,U 0.22-10 K B
C560	87-012-282-080		CAP, U 4700P-50
C561	87-012-273-080		C-CAP,U 820P-50 B
C562	87-A10-248-080		C-CAP,U0.1-16KBR
C563	87-A10-248-080		C-CAP,U0.1-16KBR
C564	87-012-282-080		CAP, U 4700P-50
C565	87-012-273-080		C-CAP,U 820P-50 B
C566	87-A11-058-080		C-CAP,U 0.22-10 K B
C567	87-010-553-040		CAP,E 47-16 GAS
C569	87-010-494-040		CAP,E 1-50 GAS
C571	87-010-492-040		CAP,E 0.33-50 GAS
C573	87-010-493-040		CAP,E 0.47-50 GAS
C601	87-A10-248-080		C-CAP,U0.1-16KBR
C605	87-010-784-080		C-CAP, U 0.012-25 B<EXCEPT 700 USM>
C606	87-010-784-080		C-CAP, U 0.012-25 B<EXCEPT 700 USM>
C611	87-A11-049-080		C-CAP,U 1-6.3 K B
C612	87-A11-049-080		C-CAP,U 1-6.3 K B
C613	87-A11-049-080		C-CAP,U 1-6.3 K B
C614	87-A11-049-080		C-CAP,U 1-6.3 K B
C615	87-A11-049-080		C-CAP,U 1-6.3 K B
C616	87-010-497-040		CAP,E 4.7-35 GAS
C633	87-012-281-080		C-CAP,U 3900P-50 B
C634	87-A11-070-080		C-CAP,U 0.033-16 K B
C635	87-012-281-080		C-CAP,U 3900P-50 B
C636	87-A11-070-080		C-CAP,U 0.033-16 K B

ELECTRICAL MAIN PARTS LIST-4/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C637	87-010-495-040		CAP,E 2.2-50 GAS
C638	87-010-495-040		CAP,E 2.2-50 GAS
C639	87-010-495-040		CAP,E 2.2-50 GAS
C640	87-010-495-040		CAP,E 2.2-50 GAS
C641	87-012-281-080		C-CAP,U 3900P-50 B
C643	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C644	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C645	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C646	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C647	86-ZA1-615-080		C-CAP,U 680P-25 J CH
C648	86-ZA1-615-080		C-CAP,U 680P-25 J CH
C649	87-A10-248-080		C-CAP,U0.1-16KBR
C650	87-016-118-080		C-CAP,U0.022-25BJ
C651	87-016-118-080		C-CAP,U0.022-25BJ
C652	87-A10-248-080		C-CAP,U0.1-16KBR
C653	87-A10-248-080		C-CAP,U0.1-16KBR
C654	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C655	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C656	87-A10-248-080		C-CAP,U0.1-16KBR
C657	87-A11-058-080		C-CAP,U 0.22-10 K B
C658	87-A11-058-080		C-CAP,U 0.22-10 K B
C659	87-016-469-040		CAP,E 6.8-50 5L SRE
C660	87-010-497-040		CAP,E 4.7-35 GAS
C661	87-A11-058-080		C-CAP,U 0.22-10 K B
C662	87-A11-058-080		C-CAP,U 0.22-10 K B
C663	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C664	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C665	87-A10-229-080		C-CAP,S 0.68-10 K W5
C666	87-A10-248-080		C-CAP,U0.1-16KBR
C667	87-010-560-040		CAP,E 10-50 GAS
C668	87-010-560-040		CAP,E 10-50 GAS
C669	87-010-494-040		CAP,E 1-50 GAS
C670	87-010-494-040		CAP,E 1-50 GAS
C675	87-010-186-080		CAP,CHIP 4700P
C676	87-010-186-080		CAP,CHIP 4700P
C685	87-012-167-080		C-CAP,U 5P-50 CH
C686	87-010-196-080		CHIP CAPACITOR,0.1-25
C687	87-010-196-080		CHIP CAPACITOR,0.1-25
C688	87-010-555-040		CAP,E 100-10 GAS
C689	87-010-555-040		CAP,E 100-10 GAS
C707	87-010-495-040		CAP,E 2.2-50 GAS
C708	87-010-495-040		CAP,E 2.2-50 GAS
C711	87-010-494-040		CAP,E 1-50 GAS
C712	87-010-494-040		CAP,E 1-50 GAS
C715	87-010-248-040		CAP,E 220-10 SME
C716	87-010-248-040		CAP,E 220-10 SME
C717	87-010-112-040		CAP,E 100-16
C718	87-010-112-040		CAP,E 100-16
C750	87-012-274-080		CHIP CAP,U 1000P-50B
C751	87-012-274-080		CHIP CAP,U 1000P-50B
C805	87-A11-049-080		C-CAP,U 1-6.3 K B
C806	87-A11-049-080		C-CAP,U 1-6.3 K B
C807	87-A11-049-080		C-CAP,U 1-6.3 K B
C808	87-A11-049-080		C-CAP,U 1-6.3 K B
C809	87-A11-049-080		C-CAP,U 1-6.3 K B
C810	87-010-498-040		CAP,E 10-16 GAS
C826	87-A11-061-080		C-CAP,S 2.2-10 K B
C827	87-A11-061-080		C-CAP,S 2.2-10 K B
C828	87-A11-049-080		C-CAP,U 1-6.3 K B
C829	87-A11-049-080		C-CAP,U 1-6.3 K B
C830	87-A11-049-080		C-CAP,U 1-6.3 K B
C831	87-010-560-040		CAP,E 10-50 GAS
C832	87-010-831-080		C-CAP,U,0.1-16F
C833	87-010-831-080		C-CAP,U,0.1-16F
C834	87-010-498-040		CAP,E 10-16 GAS
C835	87-A11-049-080		C-CAP,U 1-6.3 K B
C836	87-A11-049-080		C-CAP,U 1-6.3 K B
C837	87-A11-049-080		C-CAP,U 1-6.3 K B
C838	87-A11-049-080		C-CAP,U 1-6.3 K B
C839	87-A11-049-080		C-CAP,U 1-6.3 K B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN2	87-A60-626-010		CONN,9P V 2MM JMT
CN101	87-A61-367-010		CONN,16P V BLK FMN-BTRK
CN102	87-A60-620-010		CONN,3P V 2MM JMT
CN103	87-A60-904-010		CONN,10P H BLK FMN-STRK
CN104	87-A61-400-010		CONN,7P H BLK FMN-SSTRK
CN301	87-A61-371-010		CONN,22P V BLK FMN-BTRK
CN302	87-099-014-010		CONN,12P 6216 V
CN303	87-A60-899-010		CONN,6P V BLK FMN-BTRK
CN304	87-A60-623-010		CONN,6P V 2MM JMT
CN305	87-099-211-010		CONN,4P 6216V<701 EZSM>
CN701	87-A60-622-010		CONN,5P V 2MM JMT
L151	87-A50-333-010		COIL,OSC 9.43MHZ
L701	87-005-811-080		C-COIL,10UH J FLC32
L702	87-005-811-080		C-COIL,10UH J FLC32
R379	87-022-239-080		C-RES U 10K-1/16WF
R380	87-022-239-080		C-RES U 10K-1/16WF
R660	87-022-286-080		C-RES U 100K-1/16WF
FAN C.B			
C905	87-012-286-080		CAP, U 0.01-25
C909	87-012-286-080		CAP, U 0.01-25
C910	87-012-286-080		CAP, U 0.01-25
C911	87-A11-049-080		C-CAP,U 1-6.3 K B
C912	87-010-401-040		CAP,E 1-50 SME
C916	87-010-831-080		C-CAP,U,0.1-16F
C917	87-012-195-080		C-CAP,U 100P-50CH
CN901	87-A60-619-010		CONN,2P V 2MM JMT
CN902	87-A60-619-010		CONN,2P V 2MM JMT<EXCEPT 700 USM>
CNA901	88-805-061-230		CONN ASSY,6P 120
PT C.B			
⚠C1	87-A10-479-080		CAP,CER 2200P-250 M E KH
C14	87-A10-831-080		CAP,E 1000-25 M SMG
C16	87-010-496-080		CAP,E 3.3-50 5L<700 USM>
C16	87-010-405-080		CAP, E 10-50<EXCEPT 700 USM>
⚠CN1	87-099-674-010		CONN,2P VA V
CNA1	88-805-031-660		CONN ASSY,3P 160MM
⚠F1	87-A91-224-010		FUSE,1.25A 125V T 51S<700 USM>
FC1	87-033-213-080		CLAMP, FUSE<700 USM>
FC2	87-033-213-080		CLAMP, FUSE<700 USM>
⚠PR1	87-A91-276-080		FUSE,125MA 125V F 251<700 USM>
⚠PT1	8A-NF8-662-010		PT,SUB ANF-8 (E)<EXCEPT 700 USM>
⚠PT1	8A-NF8-661-010		PT,SUB ANF-8 (U)<700 USM>
⚠PT2	8B-CQA-652-010		PT,BCQ-A EZ<EXCEPT 700 USM>
⚠PT2	8B-CQA-651-010		PT,BCQ-A U<700 USM>
⚠RY1	87-A90-977-010		RELAY,AC12V DG12D1-O(M)
⚠T1	87-A60-317-010		TERMINAL, 1P MSC
⚠T2	87-A60-317-010		TERMINAL, 1P MSC
⚠W1	87-A80-143-010		AC CORD ASSY,E BLK<700 KSM>
⚠W1	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI<701 EZSM>
⚠W1	87-A80-149-010		AC CORD ASSY,U BLK<700 USM>
TUNER C.B			
C701	87-A12-071-080		CAP,E 47-25 SMG
C702	87-A12-090-080		CAP,E 4.7-50 SMG
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-A12-062-080		CAP,E 100-10 SMG
C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-012-286-080		CAP, U 0.01-25
C714	87-012-286-080		CAP, U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH<EXCEPT 700 USM>
C717	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH<EXCEPT 700 USM>
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P

ELECTRICAL MAIN PARTS LIST-5/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-A12-063-080		CAP,E 220-10 SMG
C753	87-012-195-080		C-CAP,U 100P-50CH<EXCEPT 700 USM>
C755	87-012-286-080		CAP, U 0.01-25
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C762	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH<700 USM>
C765	87-012-286-080		CAP, U 0.01-25
C766	87-012-286-080		CAP, U 0.01-25
C768	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C769	87-A12-071-080		CAP,E 47-25 SMG
C770	87-010-829-080		CAP, U 0.047-16
C771	87-A12-070-080		CAP,E 33-25 SMG
C772	87-010-829-080		CAP, U 0.047-16
C773	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z <EXCEPT 700 USM>
C773	87-010-196-080		CHIP CAPACITOR,0.1-25<700 USM>
C774	87-A12-062-080		CAP,E 100-10 SMG
C775	87-A12-090-080		CAP,E 4.7-50 SMG
C776	87-012-286-080		CAP, U 0.01-25
C777	87-A12-086-080		CAP,E 0.47-50 SMG
C778	87-A12-087-080		CAP,E 1-50 SMG
C779	87-A12-087-080		CAP,E 1-50 SMG
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-A12-091-080		CAP,E 10-50 SMG
C782	87-A12-091-080		CAP,E 10-50 SMG
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-A11-061-080		C-CAP,S 2.2-10 K B
C786	87-A11-061-080		C-CAP,S 2.2-10 K B
C787	87-012-280-080		CAP, U 3300P-50
C788	87-012-280-080		CAP, U 3300P-50
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-A12-091-080		CAP,E 10-50 SMG
C793	87-012-273-080		C-CAP,U 820P-50 B<700 USM>
C793	87-012-274-080		CHIP CAP,U 1000P-50B<EXCEPT 700 USM>
C794	87-A12-092-080		CAP,E 22-50 SMG
C795	87-010-596-080		CAP, S 0.047-16<700 USM>
C795	87-010-829-080		CAP, U 0.047-16<EXCEPT 700 USM>
C796	87-A12-089-080		CAP,E 3.3-50 SMG
C797	87-012-277-080		C-CAP, U 1800P-50 B<700 USM>
C797	87-012-275-080		C-CAP,U 1200P-50 B<EXCEPT 700 USM>
C798	87-012-277-080		C-CAP, U 1800P-50 B<700 USM>
C798	87-012-275-080		C-CAP,U 1200P-50 B<EXCEPT 700 USM>
C798	87-012-276-080		CAP, CHIP SS 1500 PBK<EXCEPT 700 USM>
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C813	87-010-197-080		CAP, CHIP 0.01 DM<700 USM>
C814	87-012-286-080		CAP, U 0.01-25
C818	87-010-197-080		CAP, CHIP 0.01 DM<EXCEPT 700 USM>
C819	87-010-197-080		CAP, CHIP 0.01 DM<700 USM>
C820	87-A12-071-080		CAP,E 47-25 SMG
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-012-286-080		CAP, U 0.01-25<701 EZSM>
C861	87-012-199-080		CAP 220P<701 EZSM>
C862	87-012-199-080		CAP 220P<701 EZSM>
C863	87-012-270-080		CAP, U 470P-50<701 EZSM>
C864	87-A12-091-080		CAP,E 10-50 SMG<701 EZSM>
C865	87-010-196-080		CHIP CAPACITOR,0.1-25<701 EZSM>
C866	87-A12-091-080		CAP,E 10-50 SMG<701 EZSM>
C867	87-012-286-080		CAP, U 0.01-25<701 EZSM>
C868	87-012-184-080		C-CAP,U 33P-50 CH<701 EZSM>
C869	87-012-180-080		C-CAP,U 22P-50 CH<701 EZSM>
C940	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C942	87-012-172-080		CAPACITOR CHIP U 10P CH<EXCEPT 700 USM>
C947	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EXCEPT 700 USM>
C952	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C958	87-012-286-080		CAP, U 0.01-25<EXCEPT 700 USM>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH<700 USM>
C962	87-A12-087-080		CAP,E 1-50 SMG<EXCEPT 700 USM>
CF801	87-008-423-010		CERAMIC FILTER, SFE10.7<EXCEPT 700 USM>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<700 USM>
CF802	82-785-747-010		CF MS2 GHY R<EXCEPT 700 USM>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<700 USM>
CN601	87-099-029-010		CONN,12P 6216H
CN602	87-099-211-010		CONN,4P 6216V<701 EZSM>
FFE801	A8-6ZA-19H-030		6ZA-1 FEMENM<EXCEPT 700 USM>
FFE801	A8-8ZA-194-030		8ZA-1 FEMUNM<700 USM>
J801	87-A60-657-010		TERMINAL,4P HSP-154V5-02<700 USM>
J802	87-033-241-010		TERMINAL,ANT 2P AJ-2040<EXCEPT 700 USM>
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L781	87-005-847-080		COIL,2.2UH(CECS)
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<EXCEPT 700 USM>
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<EXCEPT 700 USM>
L832	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-020-010		COIL,ANT LW(COI)<EXCEPT 700 USM>
L942	87-A50-019-010		COIL,OSC LW(COI)<EXCEPT 700 USM>
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)<700 USM>
L981	87-NF4-651-110		COIL,AM PACK2N(TOM)<EXCEPT 700 USM>
TC942	87-A91-774-080		TRIMMER,PLY 30P 6.8X5.4 CDYL <EXCEPT 700 USM>
X721	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<701 EZSM>

DVD C.B

C100	87-012-274-080		CHIP CAP,U 1000P-50B
C101	87-016-427-080		C-CAP,E 47-6.3 5.5N
C102	87-010-831-080		C-CAP,U,0.1-16F
C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-012-180-080		C-CAP,U 22P-50 CH
C105	87-012-180-080		C-CAP,U 22P-50 CH
C106	87-010-831-080		C-CAP,U,0.1-16F
C107	87-016-428-080		C-CAP,E 47-16 5.5N
C110	87-010-831-080		C-CAP,U,0.1-16F
C111	87-012-195-080		C-CAP,U 100P-50CH
C112	87-010-831-080		C-CAP,U,0.1-16F
C114	87-016-430-080		C-CAP,E 100-6.3 5.5N
C115	87-010-831-080		C-CAP,U,0.1-16F
C118	87-012-172-080		CAPACITOR CHIP U 10P CH
C119	87-012-172-080		CAPACITOR CHIP U 10P CH
C120	87-012-172-080		CAPACITOR CHIP U 10P CH
C121	87-012-172-080		CAPACITOR CHIP U 10P CH
C122	87-012-172-080		CAPACITOR CHIP U 10P CH
C123	87-012-172-080		CAPACITOR CHIP U 10P CH
C124	87-012-172-080		CAPACITOR CHIP U 10P CH
C125	87-012-172-080		CAPACITOR CHIP U 10P CH
C126	87-012-286-080		CAP, U 0.01-25
C127	87-012-286-080		CAP, U 0.01-25
C128	87-012-286-080		CAP, U 0.01-25
C129	87-012-286-080		CAP, U 0.01-25
C130	87-012-286-080		CAP, U 0.01-25
C201	87-010-831-080		C-CAP,U,0.1-16F
C202	87-010-852-080		C-CAP,E 100-4
C203	87-010-831-080		C-CAP,U,0.1-16F
C205	87-010-831-080		C-CAP,U,0.1-16F

ELECTRICAL MAIN PARTS LIST-6/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C206	87-016-430-080		C-CAP,E 100-6.3 5.5N
C208	87-016-430-080		C-CAP,E 100-6.3 5.5N
C210	87-012-286-080		CAP, U 0.01-25
C211	87-010-831-080		C-CAP,U,0.1-16F
C217	87-010-831-080		C-CAP,U,0.1-16F
C218	87-010-831-080		C-CAP,U,0.1-16F
C220	87-012-274-080		CHIP CAP,U 1000P-50B
C221	87-012-274-080		CHIP CAP,U 1000P-50B
C222	87-010-831-080		C-CAP,U,0.1-16F
C224	87-012-277-080		C-CAP, U 1800P-50 B
C225	87-012-274-080		CHIP CAP,U 1000P-50B
C226	87-012-274-080		CHIP CAP,U 1000P-50B
C227	87-012-274-080		CHIP CAP,U 1000P-50B
C228	87-012-274-080		CHIP CAP,U 1000P-50B
C229	87-012-274-080		CHIP CAP,U 1000P-50B
C231	87-012-274-080		CHIP CAP,U 1000P-50B
C232	87-012-274-080		CHIP CAP,U 1000P-50B
C233	87-010-831-080		C-CAP,U,0.1-16F
C234	87-010-831-080		C-CAP,U,0.1-16F
C235	87-012-172-080		CAPACITOR CHIP U 10P CH
C236	87-012-172-080		CAPACITOR CHIP U 10P CH
C237	87-010-831-080		C-CAP,U,0.1-16F
C238	87-010-829-080		CAP, U 0.047-16
C239	87-010-829-080		CAP, U 0.047-16
C240	87-010-831-080		C-CAP,U,0.1-16F
C241	87-010-831-080		C-CAP,U,0.1-16F
C242	87-012-286-080		CAP, U 0.01-25
C243	87-012-197-080		C-CAP,U 150P-50 CH
C244	87-010-831-080		C-CAP,U,0.1-16F
C245	87-010-831-080		C-CAP,U,0.1-16F
C246	87-010-831-080		C-CAP,U,0.1-16F
C247	87-010-831-080		C-CAP,U,0.1-16F
C248	87-010-831-080		C-CAP,U,0.1-16F
C249	87-010-831-080		C-CAP,U,0.1-16F
C250	87-010-831-080		C-CAP,U,0.1-16F
C251	87-010-831-080		C-CAP,U,0.1-16F
C252	87-010-831-080		C-CAP,U,0.1-16F
C253	87-010-831-080		C-CAP,U,0.1-16F
C254	87-010-831-080		C-CAP,U,0.1-16F
C255	87-010-831-080		C-CAP,U,0.1-16F
C256	87-012-282-080		CAP, U 4700P-50
C259	87-016-426-080		C-CAP,E 47-4 5.5N
C260	87-012-286-080		CAP, U 0.01-25
C261	87-012-286-080		CAP, U 0.01-25
C262	87-A11-056-080		C-CAP,U 1-10 Z F
C263	87-A11-056-080		C-CAP,U 1-10 Z F
C264	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C265	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C266	87-010-831-080		C-CAP,U,0.1-16F
C267	87-010-831-080		C-CAP,U,0.1-16F
C268	87-010-831-080		C-CAP,U,0.1-16F
C271	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C300	87-016-427-080		C-CAP,E 47-6.3 5.5N
C301	87-016-430-080		C-CAP,E 100-6.3 5.5N
C302	87-010-831-080		C-CAP,U,0.1-16F
C303	87-010-831-080		C-CAP,U,0.1-16F
C304	87-012-274-080		CHIP CAP,U 1000P-50B
C305	87-016-427-080		C-CAP,E 47-6.3 5.5N
C307	87-012-274-080		CHIP CAP,U 1000P-50B
C308	87-016-427-080		C-CAP,E 47-6.3 5.5N
C309	87-010-831-080		C-CAP,U,0.1-16F
C311	87-010-831-080		C-CAP,U,0.1-16F
C312	87-012-271-080		CAP, U 560P-50
C313	87-012-271-080		CAP, U 560P-50
C314	87-012-271-080		CAP, U 560P-50
C315	87-012-271-080		CAP, U 560P-50
C316	87-012-271-080		CAP, U 560P-50
C317	87-012-282-080		CAP, U 4700P-50
C318	87-012-271-080		CAP, U 560P-50
C319	87-012-196-080		C-CAP,U 120P-50 CH

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C320	87-016-430-080		C-CAP,E 100-6.3 5.5N
C321	87-010-831-080		C-CAP,U,0.1-16F
C322	87-012-286-080		CAP, U 0.01-25
C323	87-010-831-080		C-CAP,U,0.1-16F
C324	87-012-197-080		C-CAP,U 150P-50 CH
C329	87-016-427-080		C-CAP,E 47-6.3 5.5N
C330	87-012-195-080		C-CAP,U 100P-50CH
C336	87-012-197-080		C-CAP,U 150P-50 CH
C337	87-012-188-080		C-CAP,U 47P-50 CH
C338	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C339	87-012-195-080		C-CAP,U 100P-50CH
C340	87-016-427-080		C-CAP,E 47-6.3 5.5N
C341	87-012-193-080		C-CAP,U 82P-50 CH
C342	87-012-180-080		C-CAP,U 22P-50 CH
C343	87-012-270-080		CAP, U 470P-50
C344	87-012-195-080		C-CAP,U 100P-50CH
C345	87-012-197-080		C-CAP,U 150P-50 CH
C346	87-010-831-080		C-CAP,U,0.1-16F
C347	87-010-831-080		C-CAP,U,0.1-16F
C348	87-010-831-080		C-CAP,U,0.1-16F
C349	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C350	87-010-831-080		C-CAP,U,0.1-16F
C351	87-010-831-080		C-CAP,U,0.1-16F
C352	87-016-427-080		C-CAP,E 47-6.3 5.5N
C353	87-A12-344-080		C-CAP,E 100-6.3 VC PX
C354	87-012-164-080		C-CAP,U 2P-50 CK
C355	87-016-430-080		C-CAP,E 100-6.3 5.5N
C356	87-012-176-080		CAP 15P
C357	87-010-831-080		C-CAP,U,0.1-16F
C358	87-012-274-080		CHIP CAP,U 1000P-50B
C359	87-012-274-080		CHIP CAP,U 1000P-50B
C360	87-010-831-080		C-CAP,U,0.1-16F
C361	87-010-831-080		C-CAP,U,0.1-16F
C362	87-010-831-080		C-CAP,U,0.1-16F
C363	87-010-831-080		C-CAP,U,0.1-16F
C364	87-010-831-080		C-CAP,U,0.1-16F
C365	87-010-831-080		C-CAP,U,0.1-16F
C367	87-010-831-080		C-CAP,U,0.1-16F
C368	87-010-831-080		C-CAP,U,0.1-16F
C369	87-010-831-080		C-CAP,U,0.1-16F
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C400	87-010-831-080		C-CAP,U,0.1-16F
C401	87-016-426-080		C-CAP,E 47-4 5.5N
C402	87-A11-282-080		C-CAP,S 1-16 K B
C403	87-A11-282-080		C-CAP,S 1-16 K B
C404	87-A11-976-080		C-CAP,E 470-16 M 10.5L MV
C405	87-A11-282-080		C-CAP,S 1-16 K B
C406	87-A11-282-080		C-CAP,S 1-16 K B
C407	87-012-199-080		CAP 220P
C408	87-012-199-080		CAP 220P
C409	87-012-199-080		CAP 220P
C410	87-012-199-080		CAP 220P
C412	87-016-430-080		C-CAP,E 100-6.3 5.5N
C413	87-010-831-080		C-CAP,U,0.1-16F
C414	87-010-805-080		CAP, S 1-16
C415	87-010-805-080		CAP, S 1-16
C416	87-010-831-080		C-CAP,U,0.1-16F
C417	87-010-831-080		C-CAP,U,0.1-16F
C418	87-010-831-080		C-CAP,U,0.1-16F
C419	87-010-831-080		C-CAP,U,0.1-16F
C420	87-010-831-080		C-CAP,U,0.1-16F
C421	87-010-848-080		C-CAP,10-16V
C422	87-010-831-080		C-CAP,U,0.1-16F
C424	87-016-427-080		C-CAP,E 47-6.3 5.5N
C425	87-010-831-080		C-CAP,U,0.1-16F
C426	87-010-831-080		C-CAP,U,0.1-16F
C427	87-010-805-080		CAP, S 1-16
C428	87-016-430-080		C-CAP,E 100-6.3 5.5N
C429	87-010-831-080		C-CAP,U,0.1-16F
C430	87-016-430-080		C-CAP,E 100-6.3 5.5N

ELECTRICAL MAIN PARTS LIST-7/8

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C432	87-010-805-080		CAP, S 1-16
C602	87-012-286-080		CAP, U 0.01-25
C603	87-012-286-080		CAP, U 0.01-25
C604	87-012-286-080		CAP, U 0.01-25
C609	87-012-286-080		CAP, U 0.01-25
C611	87-012-286-080		CAP, U 0.01-25
C613	87-012-286-080		CAP, U 0.01-25
C614	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C617	87-012-174-080		CAP CHIP CERA SS 12P CHJ
C619	87-012-286-080		CAP, U 0.01-25
C620	87-012-286-080		CAP, U 0.01-25
C623	87-012-286-080		CAP, U 0.01-25
C624	87-012-286-080		CAP, U 0.01-25
C625	87-016-426-080		C-CAP,E 47-4 5.5N
C626	87-012-286-080		CAP, U 0.01-25
C627	87-012-286-080		CAP, U 0.01-25
C629	87-A11-056-080		C-CAP,U 1-10 Z F
C630	87-016-429-080		C-CAP,E 100-4 5.5N
C631	87-A11-056-080		C-CAP,U 1-10 Z F
C632	87-016-429-080		C-CAP,E 100-4 5.5N
C634	87-012-286-080		CAP, U 0.01-25
C701	87-012-286-080		CAP, U 0.01-25
C702	87-010-852-080		C-CAP,E 100-4
C703	87-010-853-080		C-CAP,220-4V H5.5
C704	87-012-286-080		CAP, U 0.01-25
C705	87-012-286-080		CAP, U 0.01-25
C706	87-012-286-080		CAP, U 0.01-25
C707	87-012-278-080		C-CAP,U 2200P-50 B
C708	87-012-286-080		CAP, U 0.01-25
C709	87-012-286-080		CAP, U 0.01-25
C710	87-010-851-080		C-CAP,47-4
C711	87-012-286-080		CAP, U 0.01-25
C712	87-012-286-080		CAP, U 0.01-25
C713	87-010-197-080		CAP, CHIP 0.01 DM
C714	87-010-197-080		CAP, CHIP 0.01 DM
C715	87-012-286-080		CAP, U 0.01-25
C716	87-010-197-080		CAP, CHIP 0.01 DM
C717	87-012-286-080		CAP, U 0.01-25
C718	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-286-080		CAP, U 0.01-25
C721	87-012-286-080		CAP, U 0.01-25
C722	87-012-286-080		CAP, U 0.01-25
C723	87-012-286-080		CAP, U 0.01-25
C724	87-012-286-080		CAP, U 0.01-25
C725	87-012-172-080		CAPACITOR CHIP U 10P CH
C727	87-012-286-080		CAP, U 0.01-25
C728	87-012-286-080		CAP, U 0.01-25
C729	87-012-286-080		CAP, U 0.01-25
C733	87-010-662-080		C-CAP,E 22-6.3
C734	87-012-172-080		CAPACITOR CHIP U 10P CH
C735	87-012-286-080		CAP, U 0.01-25
C736	87-010-848-080		C-CAP,10-16V
C737	87-010-662-080		C-CAP,E 22-6.3
C738	87-012-286-080		CAP, U 0.01-25
C739	87-010-662-080		C-CAP,E 22-6.3
C740	87-010-831-080		C-CAP,U,0.1-16F
C741	87-010-831-080		C-CAP,U,0.1-16F
C742	87-010-662-080		C-CAP,E 22-6.3
C744	87-010-831-080		C-CAP,U,0.1-16F
C745	87-010-831-080		C-CAP,U,0.1-16F
C751	87-010-848-080		C-CAP,10-16V
C752	87-010-848-080		C-CAP,10-16V
C755	87-010-662-080		C-CAP,E 22-6.3
C761	87-010-848-080		C-CAP,10-16V
C767	87-012-286-080		CAP, U 0.01-25
C768	87-012-274-080		CHIP CAP,U 1000P-50B
C769	87-012-274-080		CHIP CAP,U 1000P-50B
C770	87-012-274-080		CHIP CAP,U 1000P-50B
C801	87-A11-282-080		C-CAP,S 1-16 K B
C802	87-010-831-080		C-CAP,U,0.1-16F
C824	87-016-430-080		C-CAP,E 100-6.3 5.5N
C825	87-010-831-080		C-CAP,U,0.1-16F
C826	87-012-286-080		CAP, U 0.01-25
C827	87-010-831-080		C-CAP,U,0.1-16F
C828	87-010-831-080		C-CAP,U,0.1-16F
C829	87-010-831-080		C-CAP,U,0.1-16F
C830	87-010-831-080		C-CAP,U,0.1-16F
C831	87-010-831-080		C-CAP,U,0.1-16F
C832	87-010-831-080		C-CAP,U,0.1-16F
C833	87-012-286-080		CAP, U 0.01-25
C834	87-010-831-080		C-CAP,U,0.1-16F
C835	87-010-831-080		C-CAP,U,0.1-16F
C900	87-A11-969-080		C-CAP,U 0.082U-16 K B
C901	87-010-831-080		C-CAP,U,0.1-16F
C902	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C903	87-012-278-080		C-CAP,U 2200P-50 B
C905	87-012-188-080		C-CAP,U 47P-50 CH
C908	87-012-188-080		C-CAP,U 47P-50 CH
C909	87-012-286-080		CAP, U 0.01-25
C911	87-012-188-080		C-CAP,U 47P-50 CH
C913	87-012-188-080		C-CAP,U 47P-50 CH
C915	87-012-188-080		C-CAP,U 47P-50 CH
C916	87-012-188-080		C-CAP,U 47P-50 CH
C917	87-012-188-080		C-CAP,U 47P-50 CH
C920	87-012-188-080		C-CAP,U 47P-50 CH
C921	87-010-843-080		C-CAP,E 1-50 M 5.5L MV
C922	87-016-427-080		C-CAP,E 47-6.3 5.5N
C923	87-010-831-080		C-CAP,U,0.1-16F
C924	87-010-831-080		C-CAP,U,0.1-16F
C925	87-010-831-080		C-CAP,U,0.1-16F
C926	87-012-286-080		CAP, U 0.01-25
C927	87-010-831-080		C-CAP,U,0.1-16F
C928	87-012-270-080		CAP, U 470P-50
C929	87-010-844-080		C-CAP,E 2.2-50 M MV
C930	87-010-831-080		C-CAP,U,0.1-16F
C932	87-010-831-080		C-CAP,U,0.1-16F
C933	87-010-831-080		C-CAP,U,0.1-16F
C940	87-010-805-080		CAP, S 1-16
C941	87-016-429-080		C-CAP,E 100-4 5.5N
C942	87-010-805-080		CAP, S 1-16
C943	87-010-831-080		C-CAP,U,0.1-16F
C944	87-010-805-080		CAP, S 1-16
C945	87-010-831-080		C-CAP,U,0.1-16F
C946	87-010-805-080		CAP, S 1-16
C947	87-010-805-080		CAP, S 1-16
C948	87-010-851-080		C-CAP,47-4
C949	87-010-831-080		C-CAP,U,0.1-16F
C954	87-010-831-080		C-CAP,U,0.1-16F
C955	87-016-427-080		C-CAP,E 47-6.3 5.5N
C956	87-010-805-080		CAP, S 1-16
C958	87-010-851-080		C-CAP,47-4
C960	87-010-831-080		C-CAP,U,0.1-16F
C968	87-010-851-080		C-CAP,47-4
C969	87-010-851-080		C-CAP,47-4
C970	87-012-274-080		CHIP CAP,U 1000P-50B
C971	87-012-274-080		CHIP CAP,U 1000P-50B
C972	87-012-274-080		CHIP CAP,U 1000P-50B
C973	87-012-274-080		CHIP CAP,U 1000P-50B
C974	87-012-274-080		CHIP CAP,U 1000P-50B
C975	87-012-274-080		CHIP CAP,U 1000P-50B
C976	87-012-274-080		CHIP CAP,U 1000P-50B
C977	87-012-274-080		CHIP CAP,U 1000P-50B
CN100	87-A61-476-080		C-CONN,10P V WHT BM10B-SRSS-TB
CN300	87-A61-459-080		C-CONN,33P H XF2H-3315-1
CN401	87-A61-337-080		C-CONN,9P V WHT PH-SM3-TB
CN402	87-A61-337-080		C-CONN,9P V WHT PH-SM3-TB
CN601	87-A60-852-080		C-CONN,6P V FMN-BMTTNTF
CN701	87-A61-615-080		C-CONN,2P V PH-SM3-TB
CN801	87-A61-638-080		C-CONN,8P V FMN-BMTTN-TF

ELECTRICAL MAIN PARTS LIST-8/8

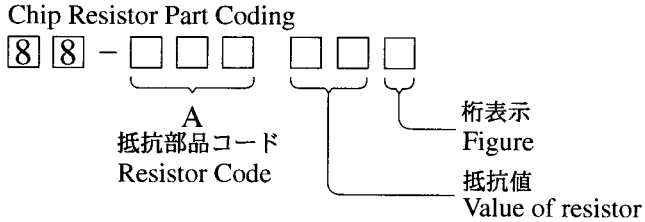
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN901	87-A61-641-080		C-CONN,16P V FMN-BMTTN-TF
CP111	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP112	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP113	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP114	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP200	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP201	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
CP203	87-A91-065-080		C-ARRAY,R 100X4 EXBV8V
FB201	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB401	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB403	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB406	87-A91-720-080		C-F-BEAD, FBMJ3216HS800-T
FB731	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB733	87-A91-875-080		C-F-BEAD, BK1608LL680
FB737	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB802	87-A50-667-080		C-COIL, 1.0UH K FLC32
FB900	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB901	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB902	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB903	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB904	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB905	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB906	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB911	87-A91-861-080		C-F-BEAD, BLM21P221SGPT
FB960	87-A91-480-080		C-F-BEAD, BK1608 HS121
FB962	87-A91-480-080		C-F-BEAD, BK1608 HS121
L100	87-A50-667-080		C-COIL, 1.0UH K FLC32
L201	87-A50-395-080		C-COIL,100UHD73C-636CY
L203	87-A50-668-080		C-COIL, 2.2UH K FLC32
L204	87-A50-667-080		C-COIL, 1.0UH K FLC32
L300	87-A50-395-080		C-COIL,100UHD73C-636CY
L301	87-005-811-080		C-COIL,10UH J FLC32
L302	87-005-811-080		C-COIL,10UH J FLC32
L303	87-005-811-080		C-COIL,10UH J FLC32
L400	87-A50-667-080		C-COIL, 1.0UH K FLC32

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L600	87-A50-667-080		C-COIL, 1.0UH K FLC32
L601	87-A50-667-080		C-COIL, 1.0UH K FLC32
L602	87-A50-667-080		C-COIL, 1.0UH K FLC32
L700	87-A50-667-080		C-COIL, 1.0UH K FLC32
L701	87-A50-667-080		C-COIL, 1.0UH K FLC32
L702	87-A50-668-080		C-COIL, 2.2UH K FLC32
L705	87-005-815-080		C-COIL, 22UH J FLC32
R247	87-A91-480-080		C-F-BEAD, BK1608 HS121
R250	87-A91-480-080		C-F-BEAD, BK1608 HS121
R251	87-A91-480-080		C-F-BEAD, BK1608 HS121
R300	87-A91-480-080		C-F-BEAD, BK1608 HS121
R301	87-A91-480-080		C-F-BEAD, BK1608 HS121
R303	87-A91-480-080		C-F-BEAD, BK1608 HS121
R304	87-A91-480-080		C-F-BEAD, BK1608 HS121
R615	87-A91-480-080		C-F-BEAD, BK1608 HS121
R619	87-A91-480-080		C-F-BEAD, BK1608 HS121
R624	87-A91-480-080		C-F-BEAD, BK1608 HS121
R626	87-A91-480-080		C-F-BEAD, BK1608 HS121
R685	87-A91-480-080		C-F-BEAD, BK1608 HS121
R686	87-A91-480-080		C-F-BEAD, BK1608 HS121
R768	87-A91-878-080		C-F-BEAD, BK1608HS241
R835	87-A91-480-080		C-F-BEAD, BK1608 HS121
W1	8A-ZGD-605-010		FF-CABLE,33P 0.5 110MM
X100	87-A70-284-080		C-VIB,XTAL 10MHZ HC-49/U03C
X200	87-A70-283-080		C-VIB,XTAL 16.9344MHZ HC-49/U0
X600	87-A70-194-080		C-VIB,XTAL 20MHZ HC-49/U03C
X700	87-A70-195-080		C-VIB,XTAL 27MHZ HC-49/U03C

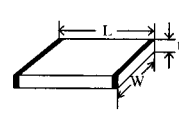
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

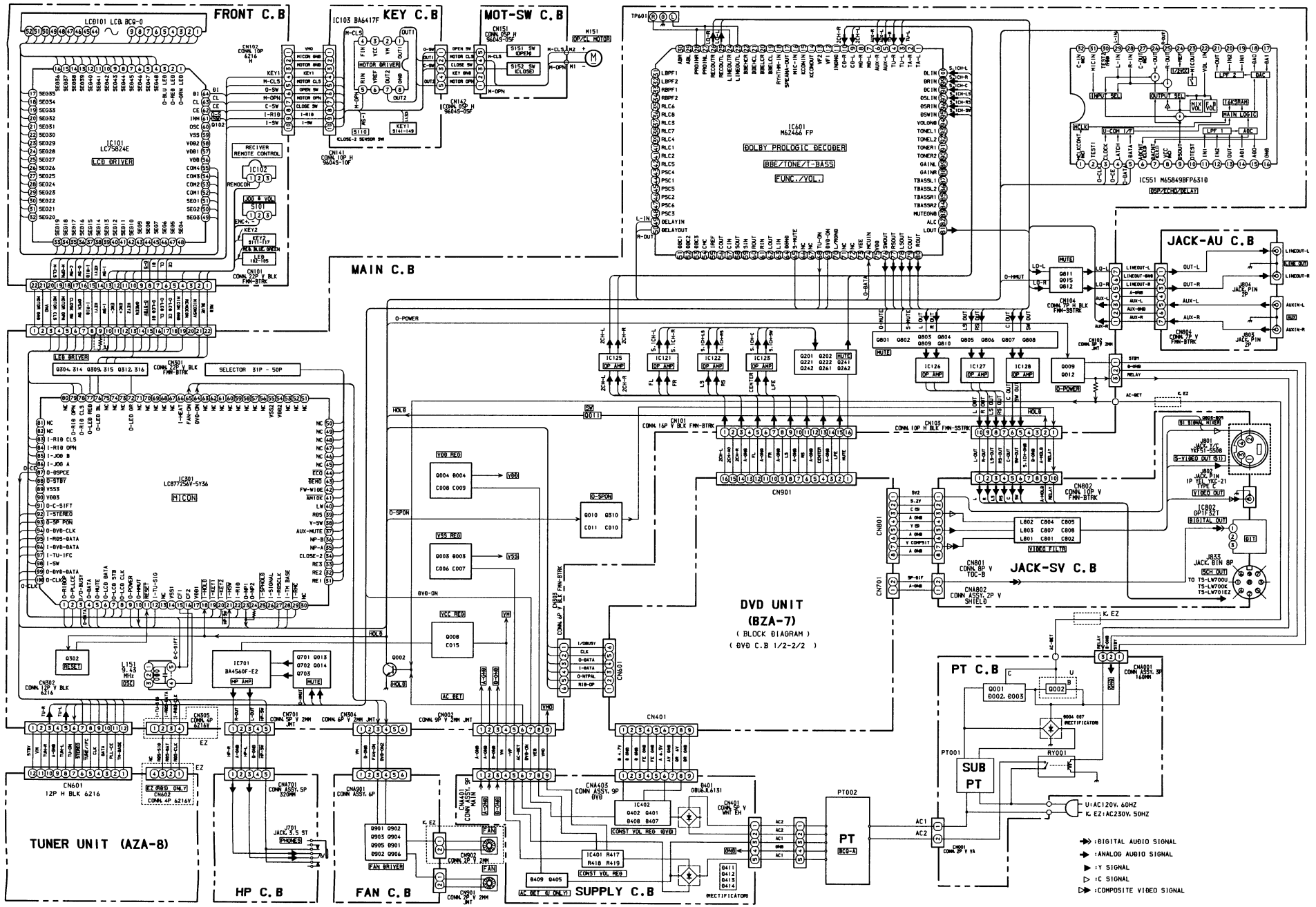
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



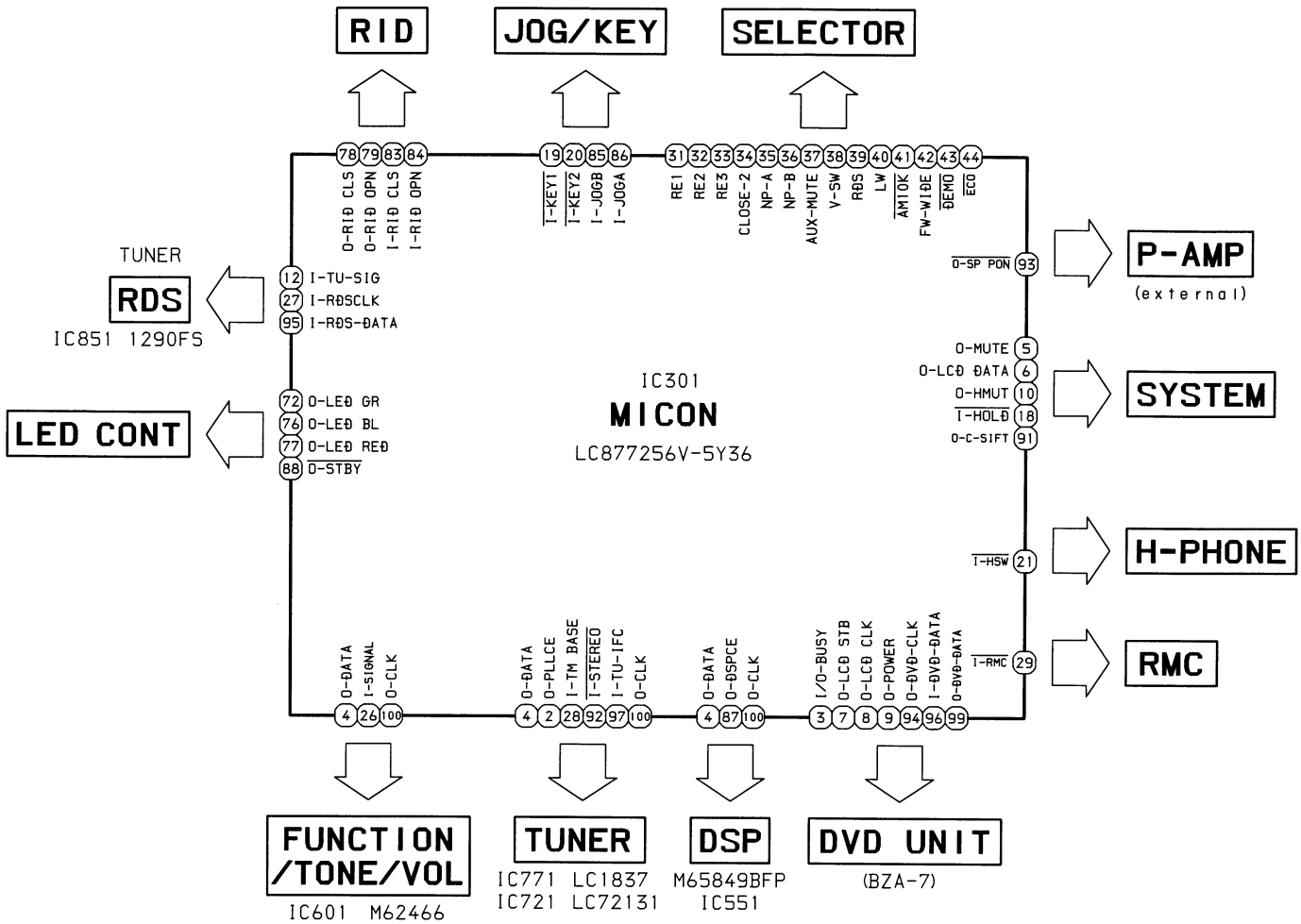
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

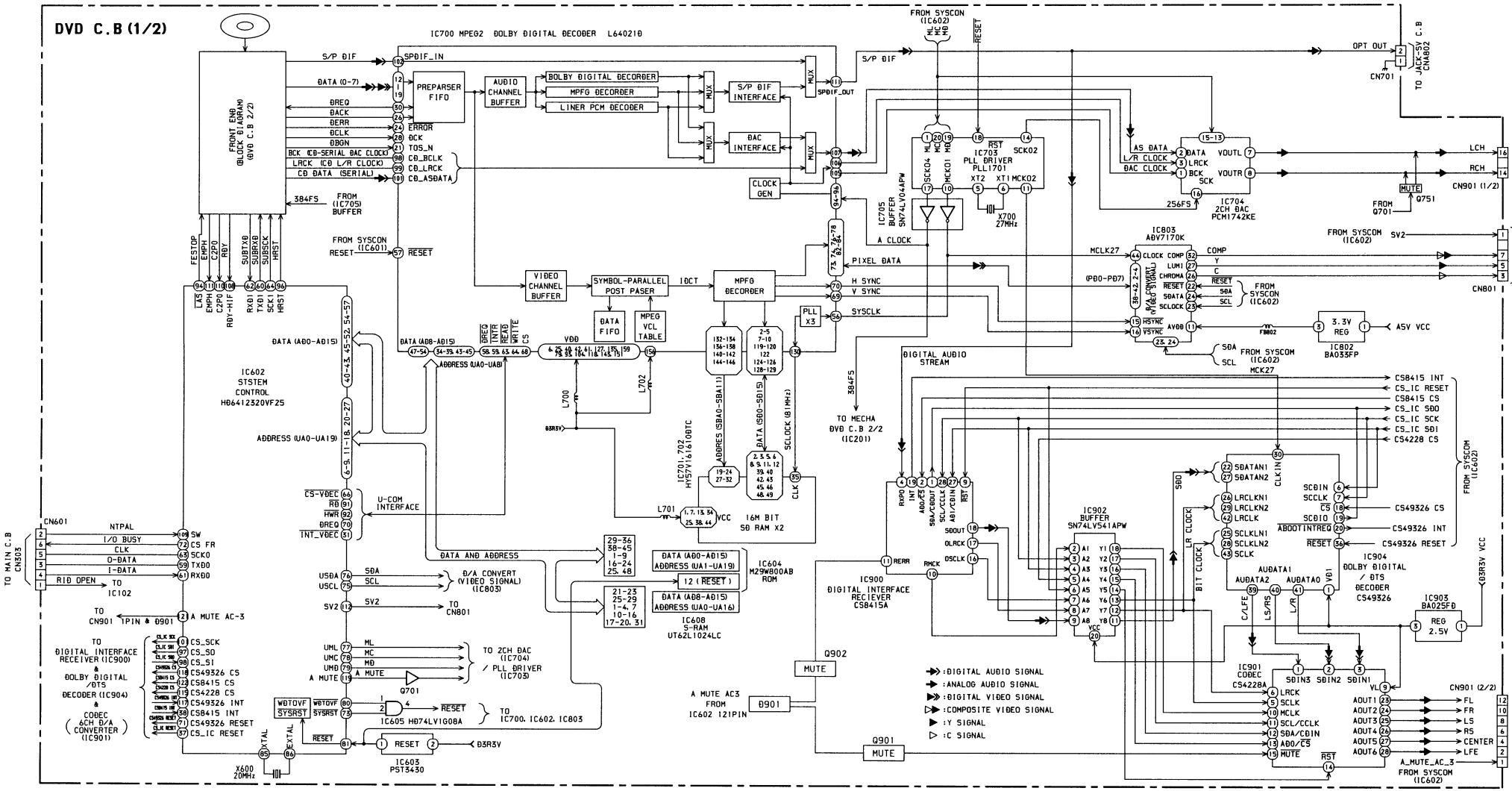
BLOCK DIAGRAM-1/4 (EXCEPT DVD C.B)



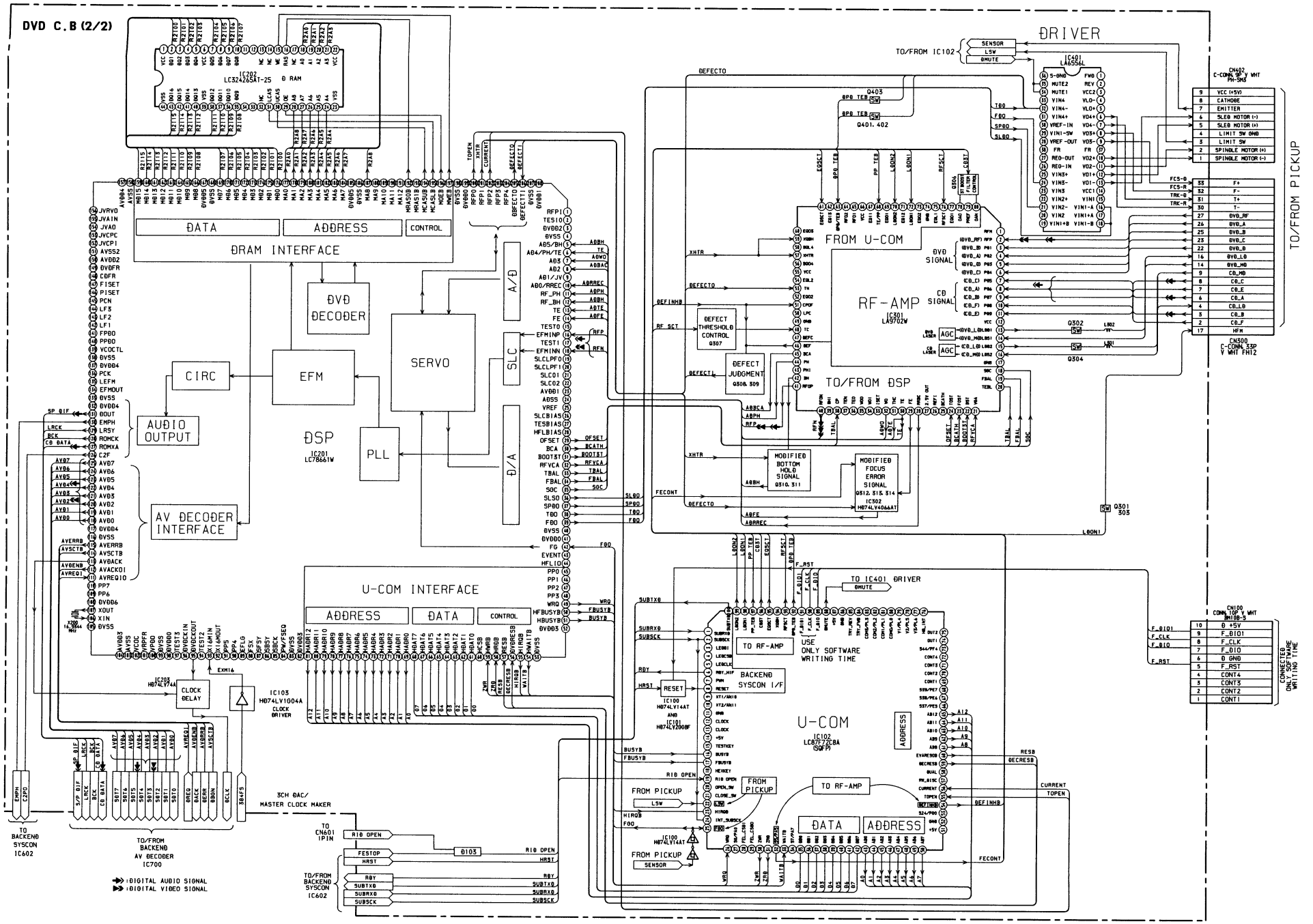
BLOCK DIAGRAM-2/4 (MAIN : MICON BLOCK)

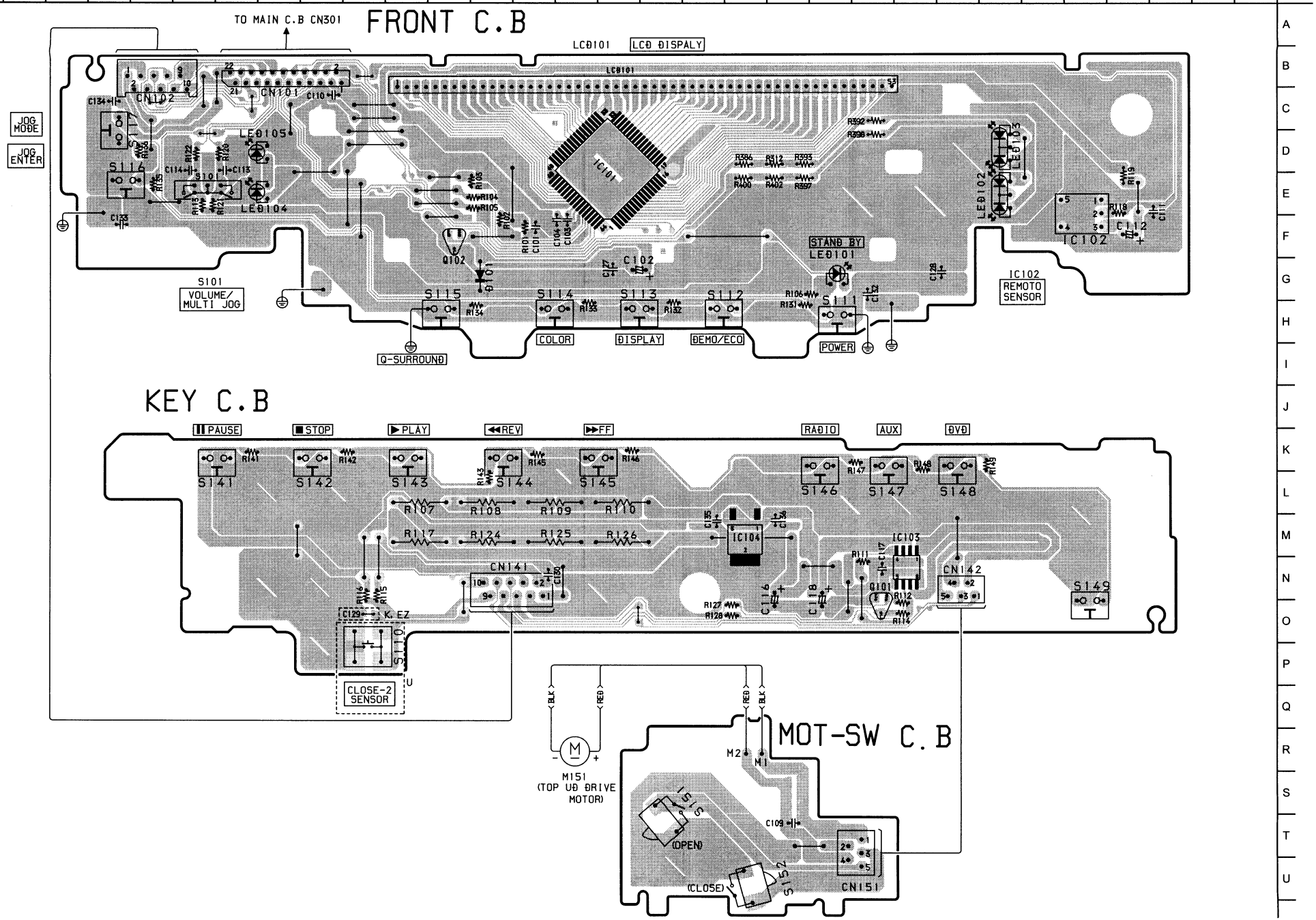


*The PIN-4 and PIN-100 are common in the Function, Tuner and DSP.

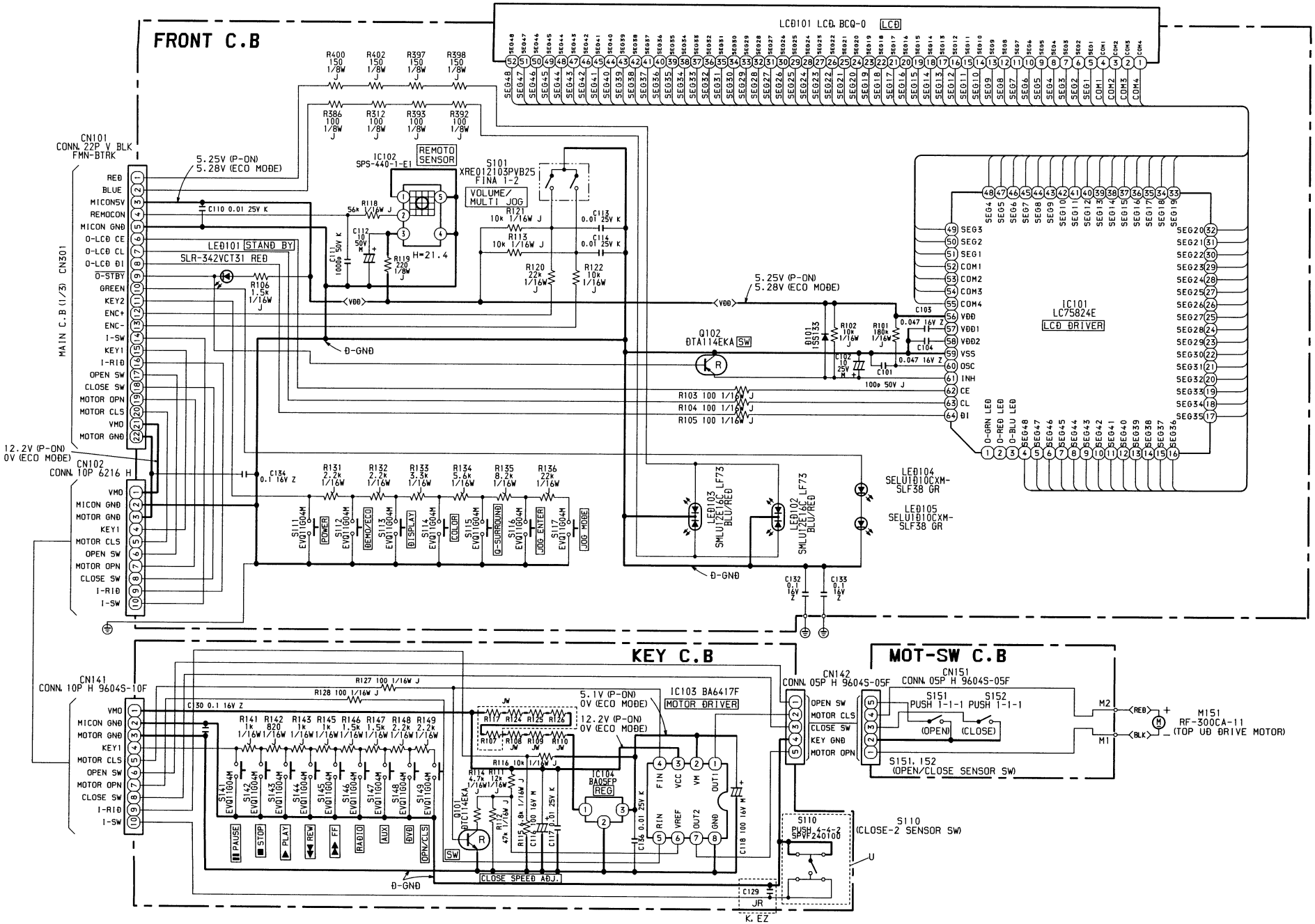

DVD C.B (1/2)
IC700 MPEG2 DOLBY DIGITAL DECODER L640210
FRONT END (BLOCK DIAGRAM) (DVD C.B 2/2)
PREPARSER FIFO
AUDIO CHANNEL BUFFER
DOLBY DIGITAL DECORDER
MPEG DECORDER
LINER PCM DECODER
S/P DIF INTERFACE
DAC INTERFACE
CLOCK GEN
VIDEO CHANNEL BUFFER
SYMBOL-PARALLEL POST PASER
MPEG DECORDER
DATA FIFO
MPEG VCL TABLE
PLL X3
IC602 STSTEM CONTROL HD6412320VF25
IC703 PLL DRIVER PLL1701
IC705 BUFFER SN74LV044APW
IC704 2CH DAC PCM1742KE
IC803 A8V7170K
IC802 BA033FP
IC902 BUFFER SN74LV541APW
IC900 DIGITAL INTERFACE RECIEVER CS8415A
IC901 CODEC CS4228A
IC903 BA025FB
IC904 DOLBY DIGITAL / DTS DECODER CS49326
IC604 M29W800AB ROM
IC608 S-RAM UT62L1024LC
IC603 PST3430
IC605 HD74LV1G08A
IC701,702 HY57V161610DTC
16M BIT SD RAM X2
X700 27MHz
X600 20MHz
TO MECHA DVD C.B 2/2 (IC201)
DIGITAL AUDIO STREAM
TO 2CH DAC (IC704) / PLL DRIVER (IC703)
D/A CONVERT (VIDEO SIGNAL) (IC803)
U-COM INTERFACE
TO DIGITAL INTERFACE RECEIVER (IC900) & DOLBY DIGITAL /DTS DECODER (IC904) & CODEC (6CH D/A CONVERTER) (IC901)
TO IC700, IC602, IC803
TO CN801
TO IC102
TO CN901 1PIN & D901
A MUTE AC3 FROM IC602 121PIN
FROM SYSCON (IC602)
TO MAIN C.B CN101
TO JACK-SV C.B CN802
TO JACK-SV C.B CN801
CN601
CN701
CN901 (1/2)
CN901 (2/2)
Q701
Q751
Q902
Q901
D901
:DIGITAL AUDIO SIGNAL
:ANALOG AUDIO SIGNAL
:DIGITAL VIDEO SIGNAL
:COMPOSITE VIDEO SIGNAL
:Y SIGNAL
:C SIGNAL

BLOCK DIAGRAM-4/4 (DVD-2/2 : FRONT END)




FRONT C.B
TO MAIN C.B CN301
LCD DISPALY
JOG MODE
JOG ENTER
VOLUME/ MULTI JOG
Q-SURROUND
COLOR
DISPLAY
DEMO/ECO
POWER
STAND BY
REMOTO SENSOR
KEY C.B
PAUSE
STOP
PLAY
REV
FF
RADIO
AUX
DVD
K.EZ
CLOSE-2 SENSOR
MOT-SW C.B
M151 (TOP UD DRIVE MOTOR)
(OPEN)
(CLOSE)

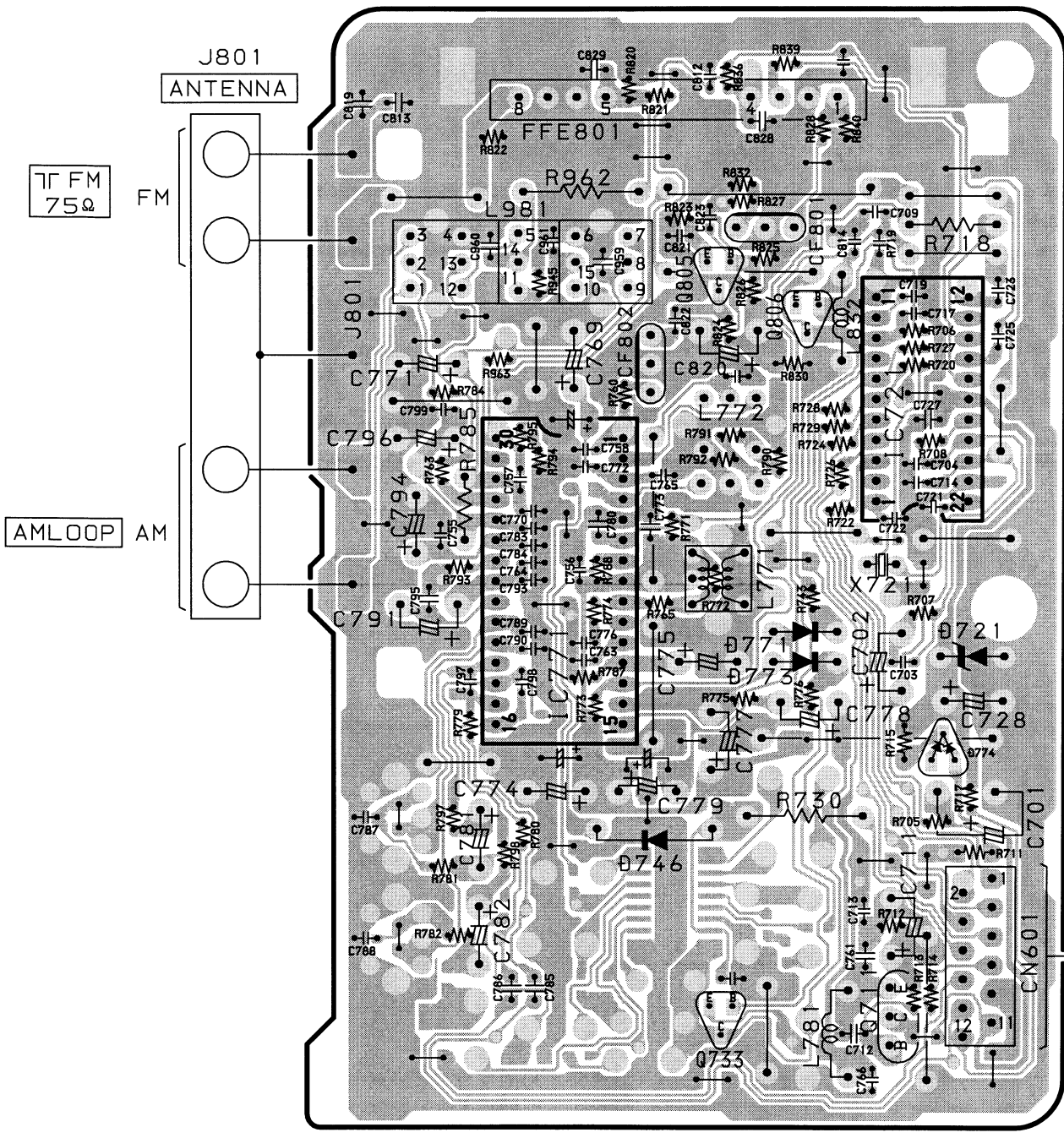
SCHEMATIC DIAGRAM-1/18 (FRONT, KEY, MOT-SW)



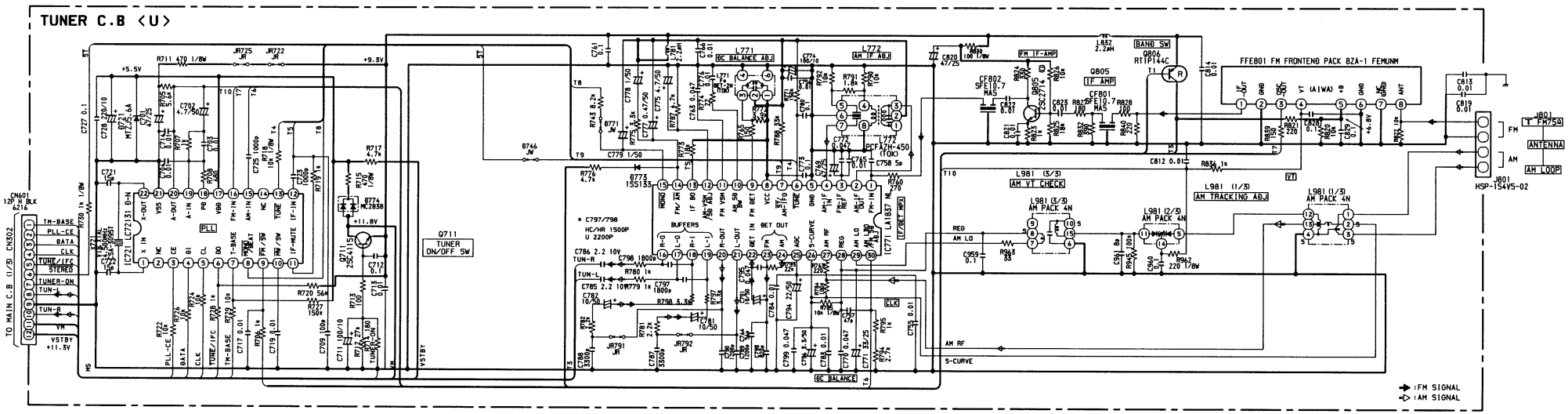
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

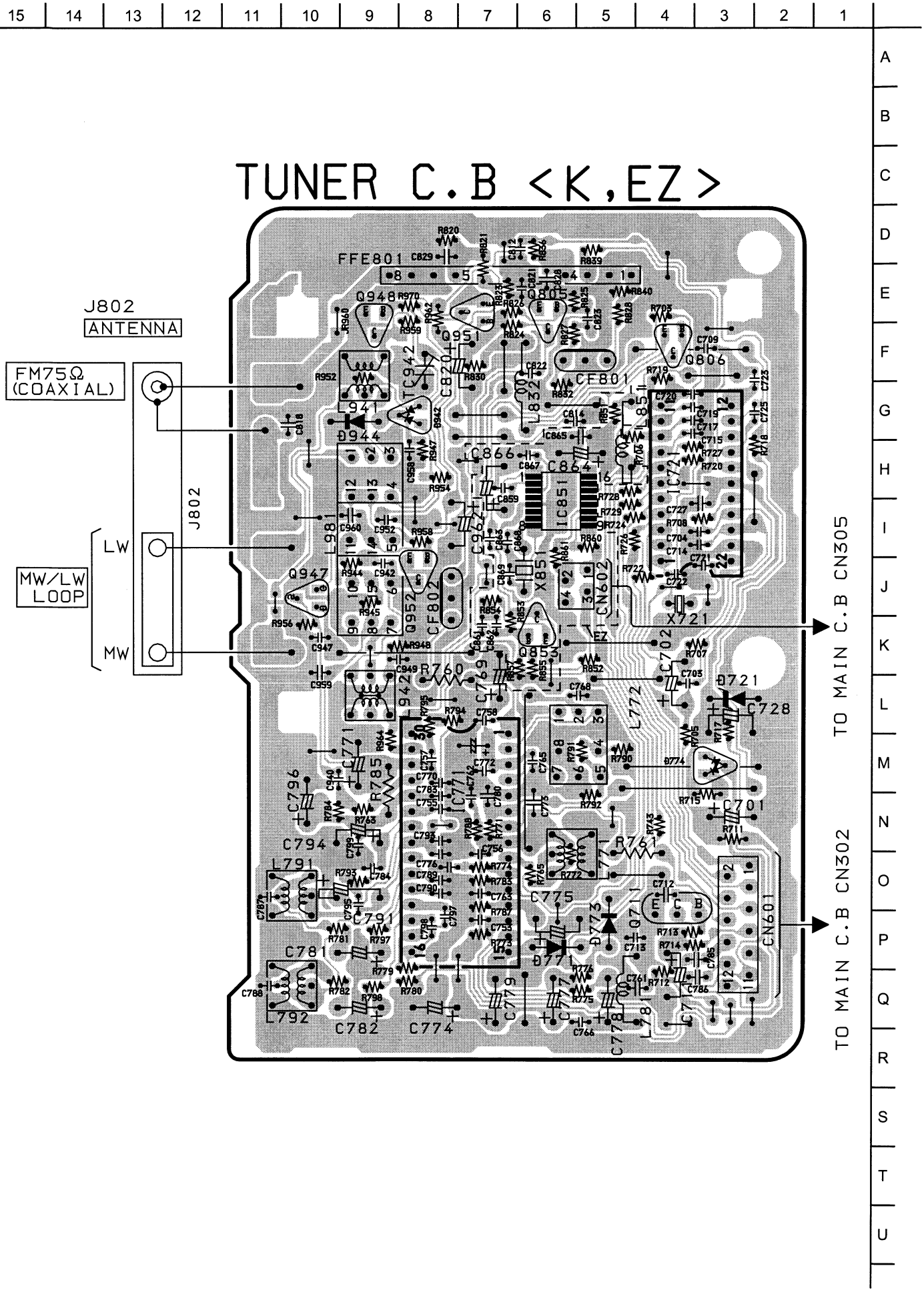
A B C D E F G H I J K L M N O P Q R S T U

TUNER C.B <U>

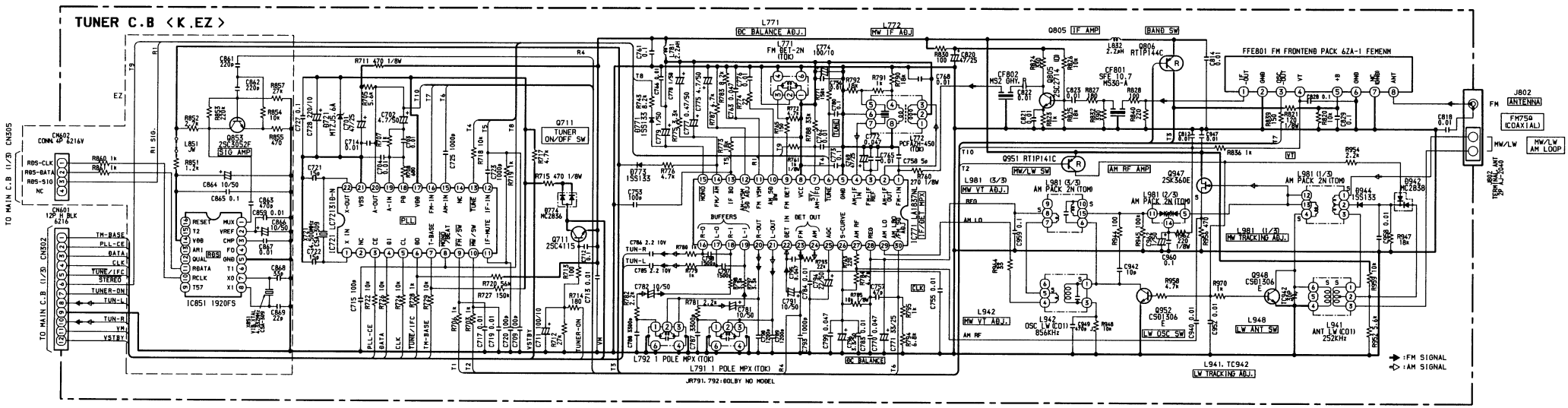


SCHEMATIC DIAGRAM-2/18 (TUNER <U>)

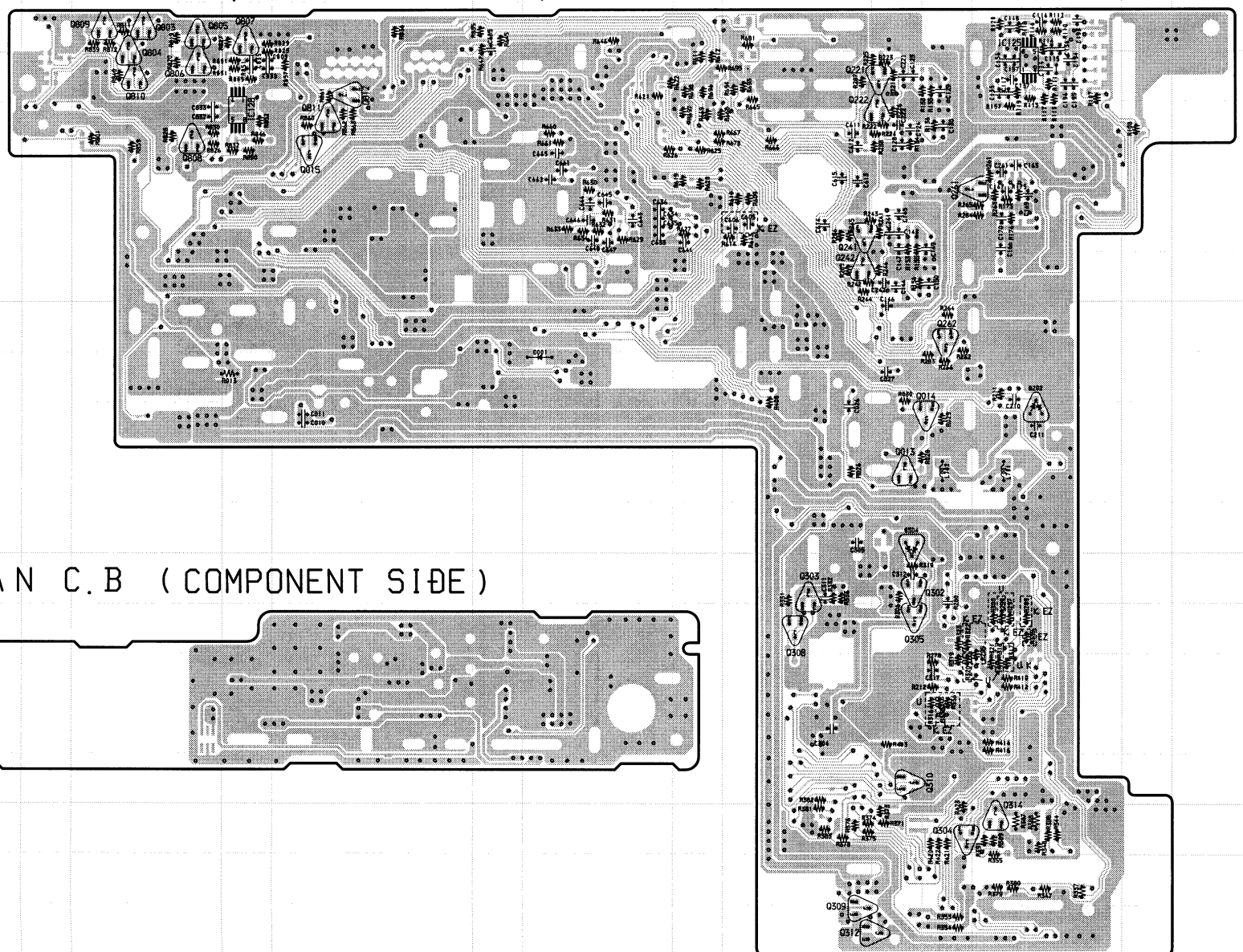



15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
TUNER C.B <K,EZ>
J802
ANTENNA
FM75Ω
(COAXIAL)
J802
LW
MW
MW/LW
LOOP
TO MAIN C.B CN305
TO MAIN C.B CN302
FFE801
CF801
CF802
IC851
IC941
IC942
X721
X851
CN601
CN602
L941
L942
L771
L772
L781
L782
L791
L792
Q947
Q948
Q951
Q952
Q771
Q774
Q777
Q806
Q851
D721
D771
D944
R760
R761
C701
C728
C771
C774
C775
C782
C794
C796

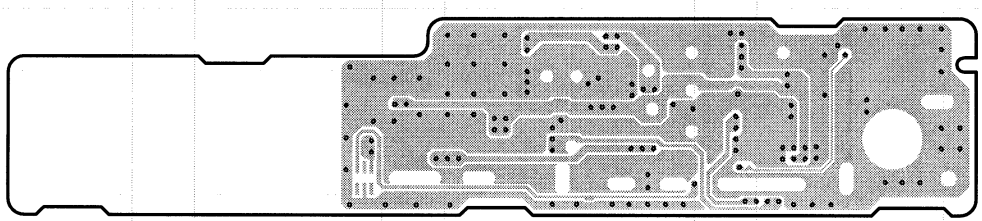
SCHEMATIC DIAGRAM-3/18 (TUNER <K, EZ>)

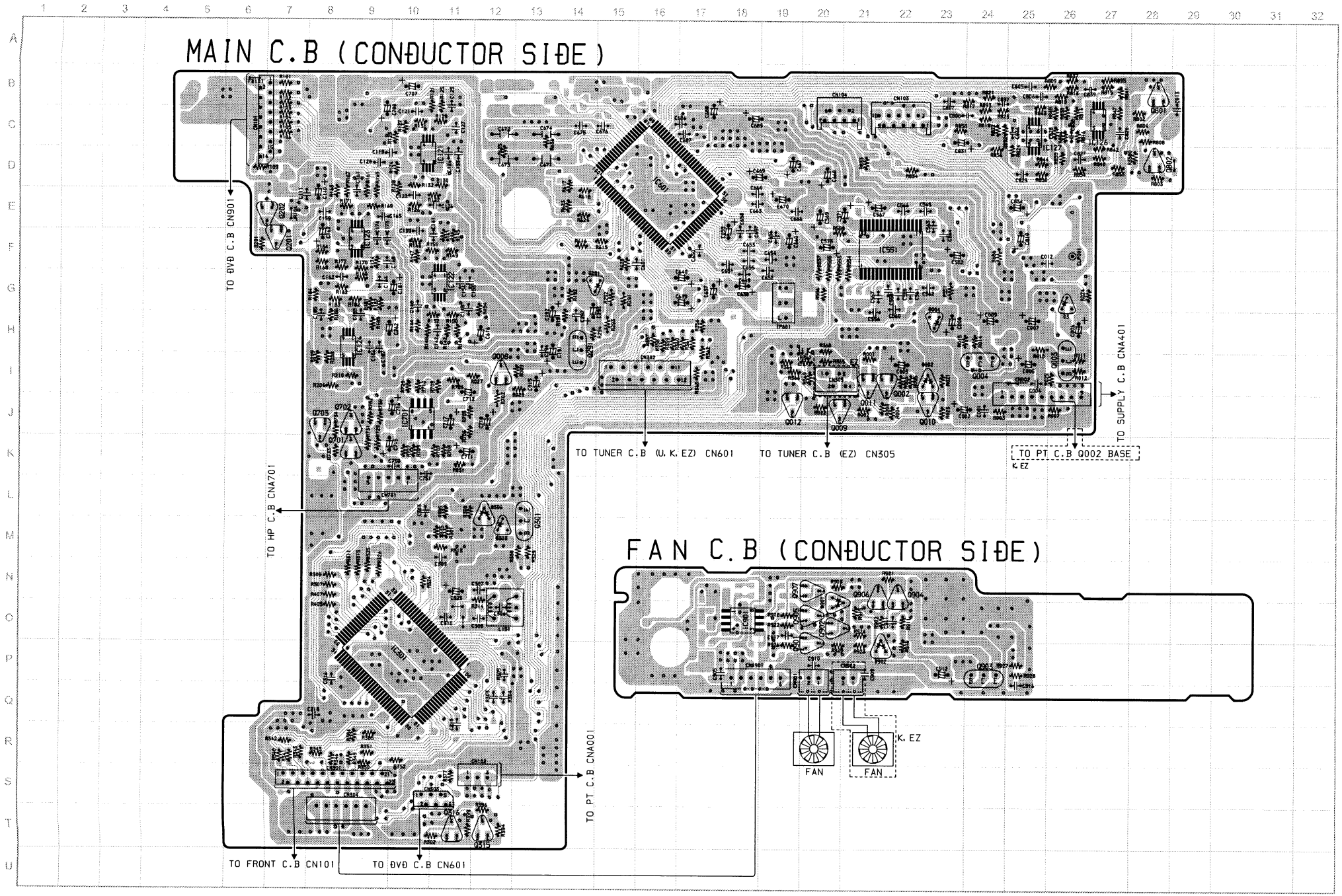


MAIN C.B (COMPONENT SIDE)

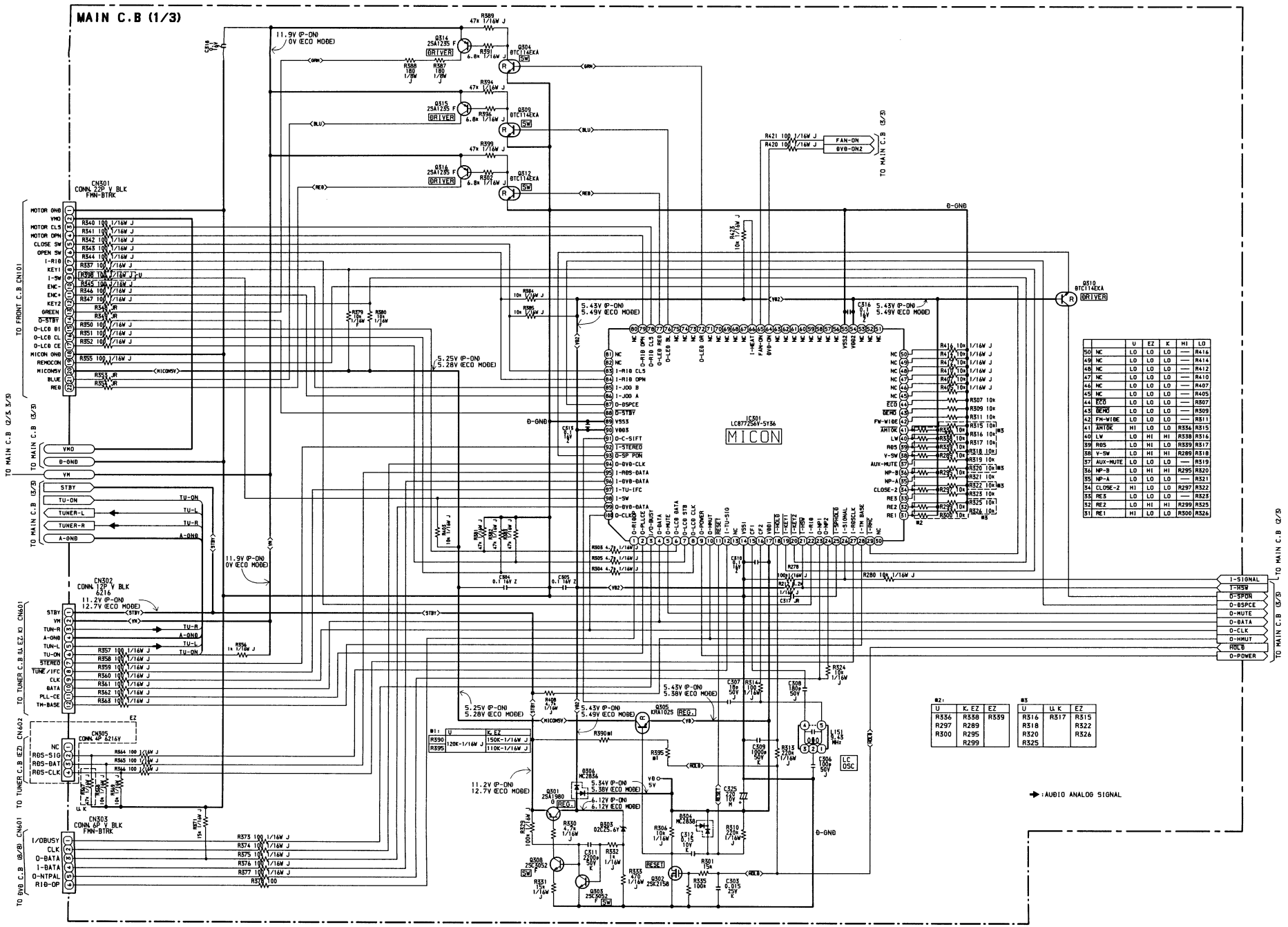


FAN C.B (COMPONENT SIDE)

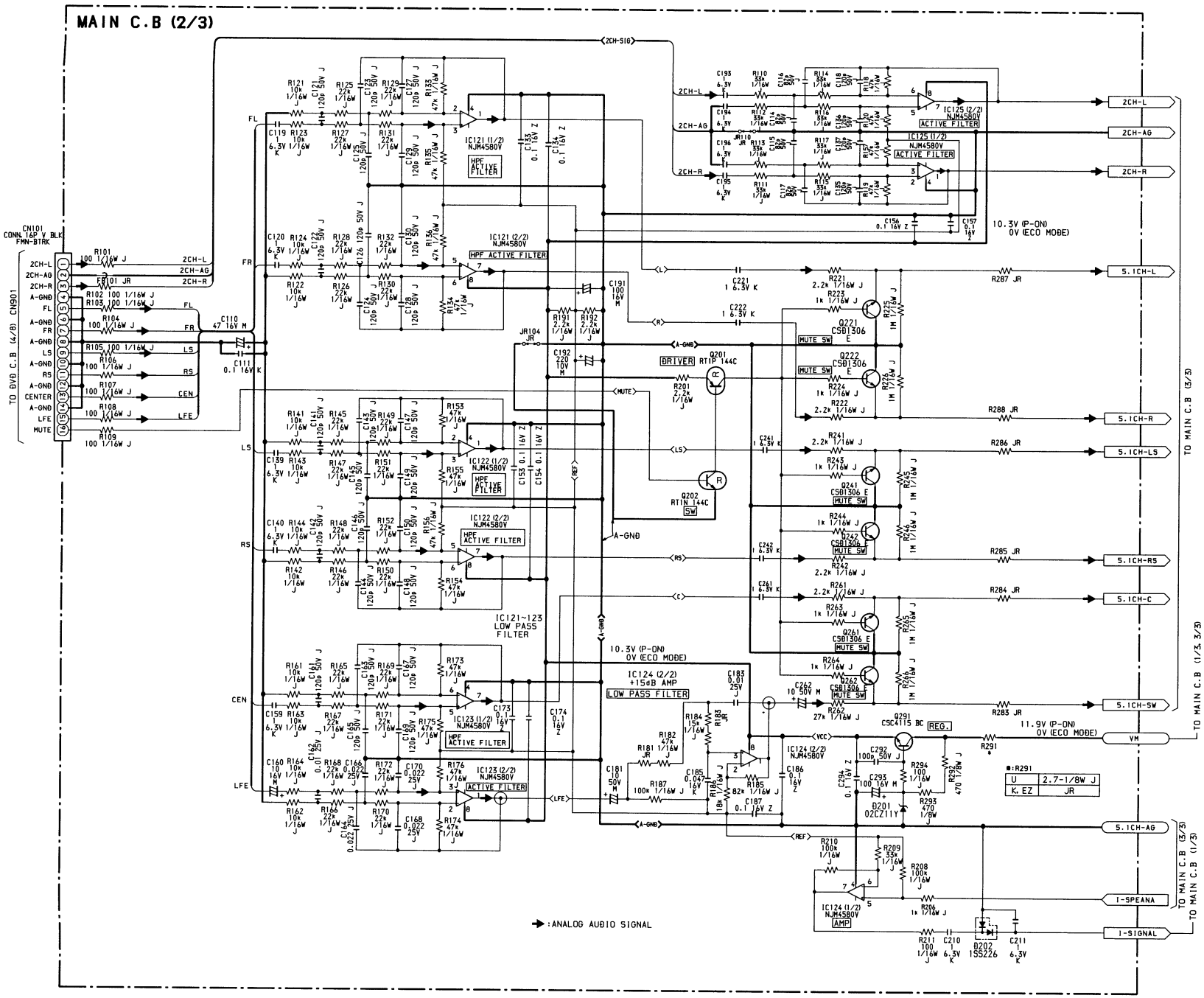



MAIN C.B (CONDUCTOR SIDE)
TO DVD C.B CN901
TO TUNER C.B (U, K, EZ) CN601
TO TUNER C.B (EZ) CN305
TO SUPPLY C.B CNA401
TO PT C.B Q002 BASE
K, EZ
TO HP C.B CNA701
FAN C.B (CONDUCTOR SIDE)
K, EZ
FAN
FAN
TO PT C.B CNA001
TO FRONT C.B CN101
TO DVD C.B CN601

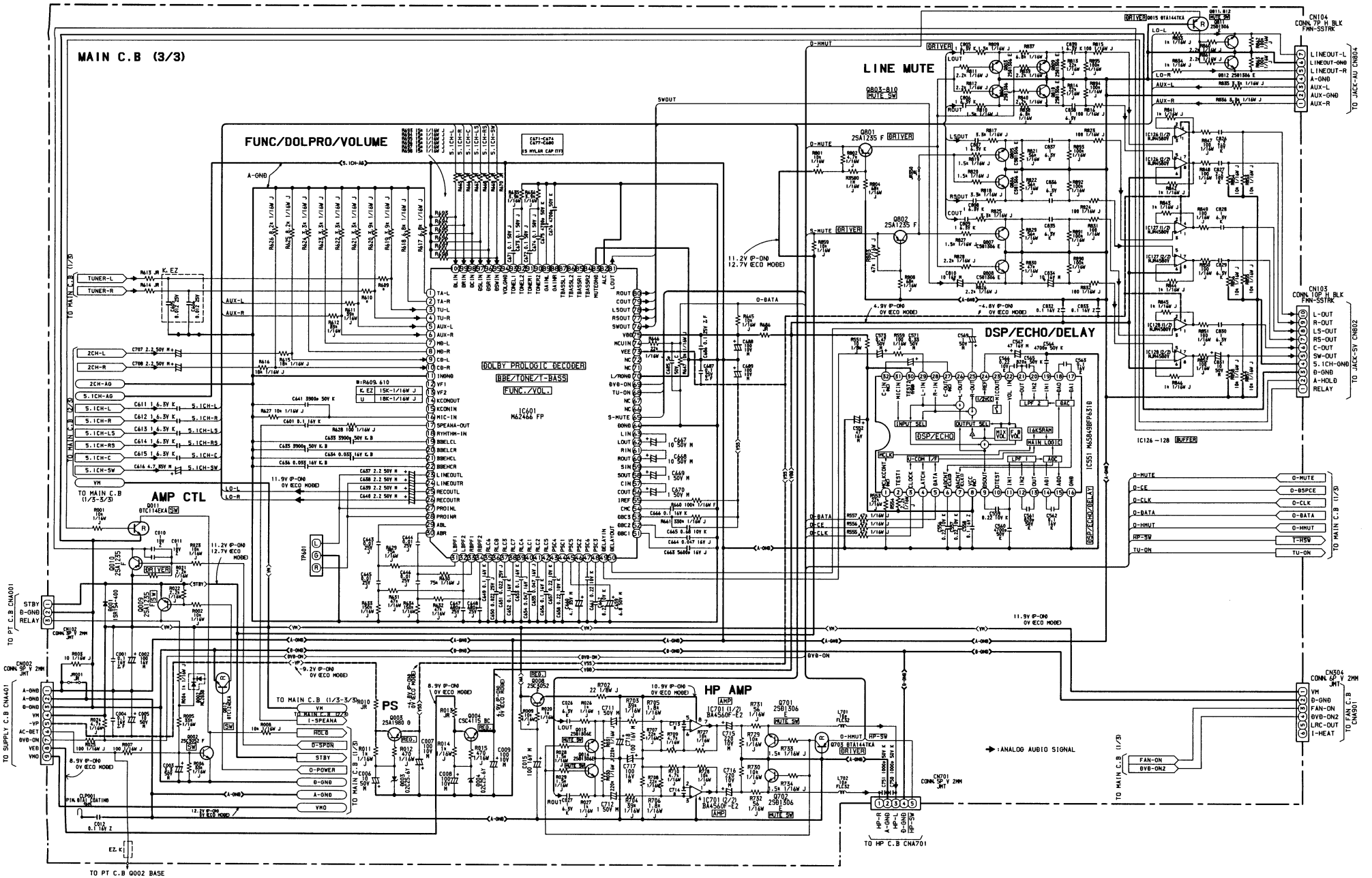
SCHEMATIC DIAGRAM-4/18 (MAIN-1/3 : MICON)



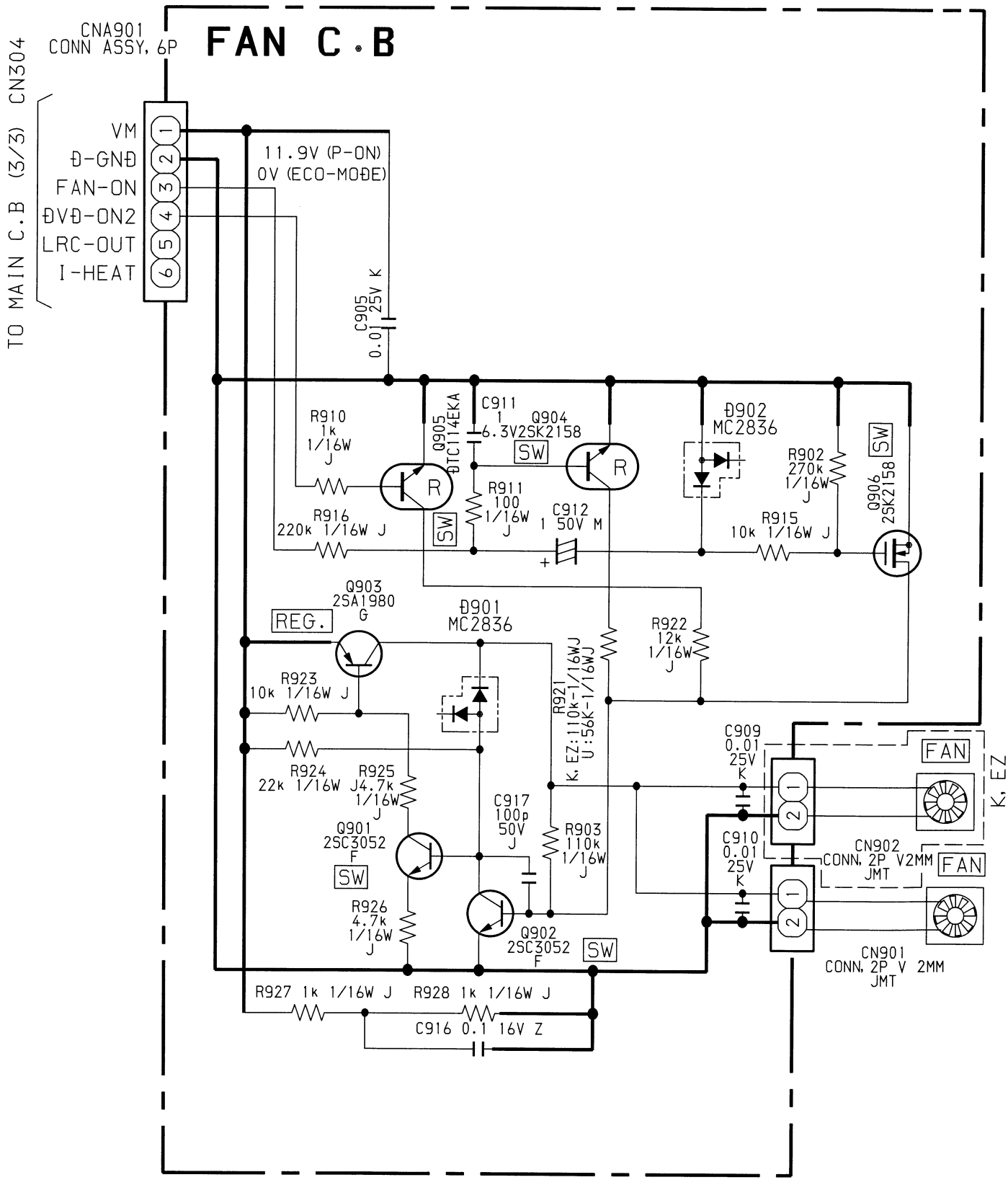
SCHEMATIC DIAGRAM-5/18 (MAIN-2/3 : AC3 FILTER)

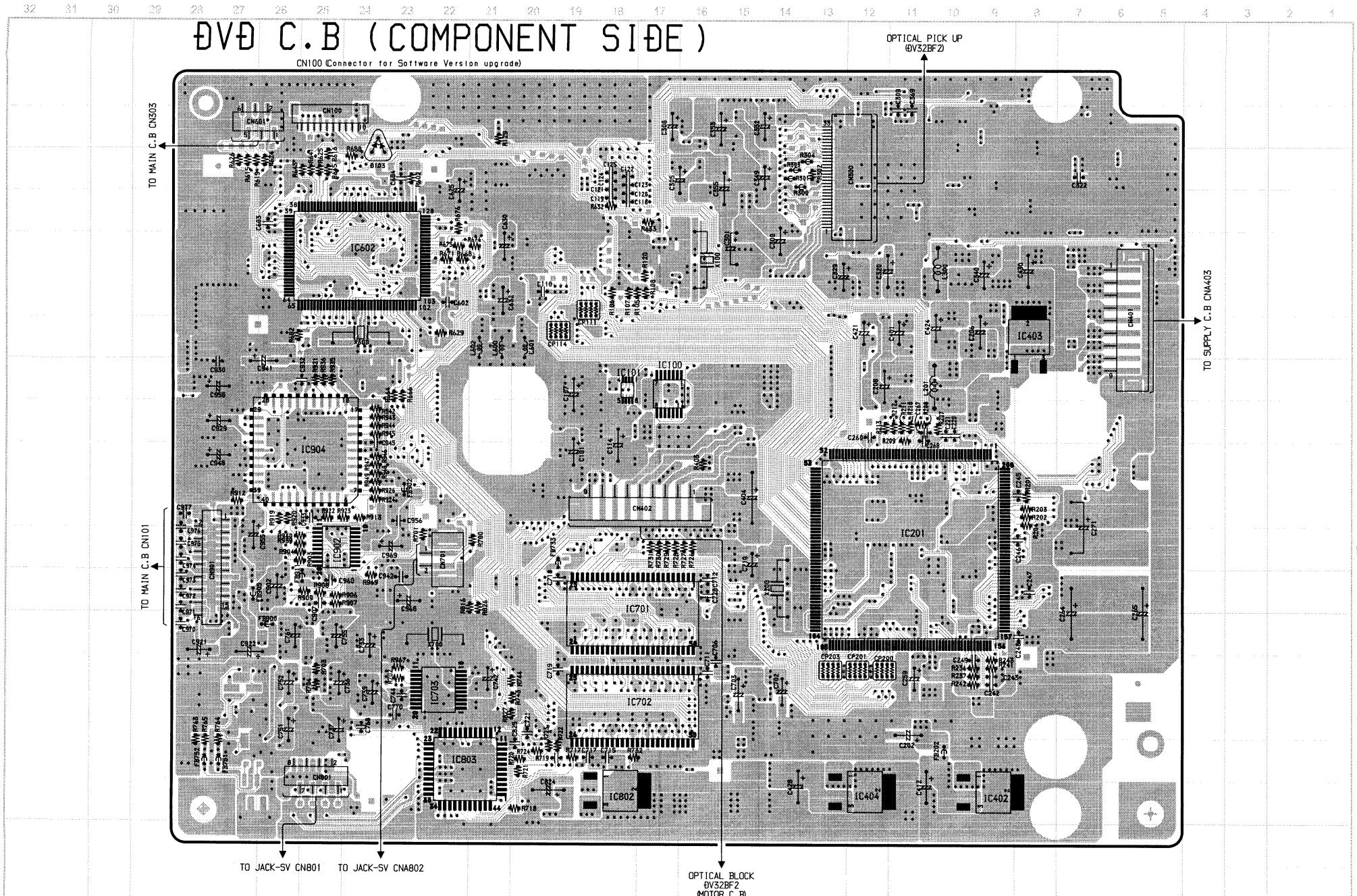


SCHEMATIC DIAGRAM-6/18 (MAIN-3/3 : FUN, PRO LOGIC)

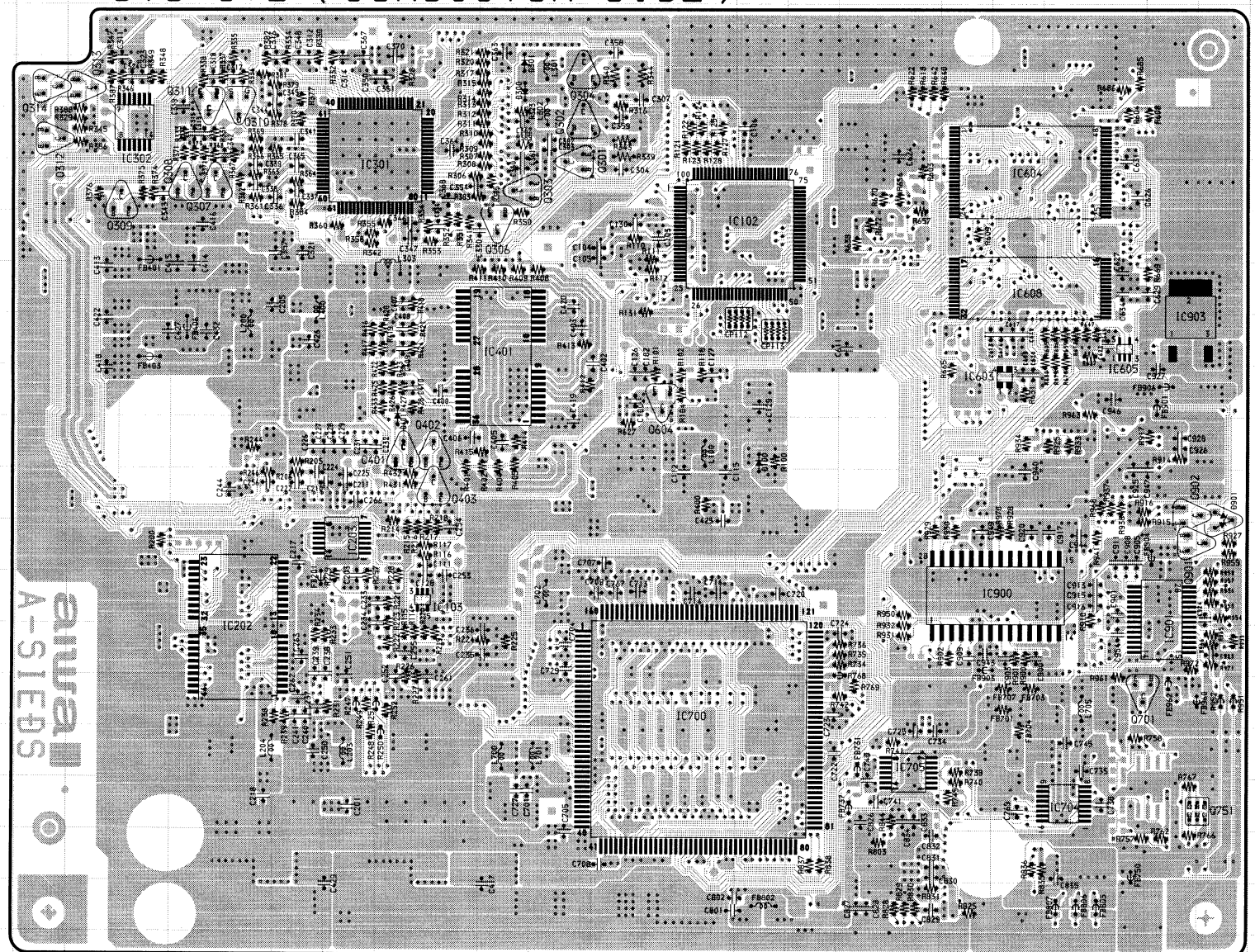


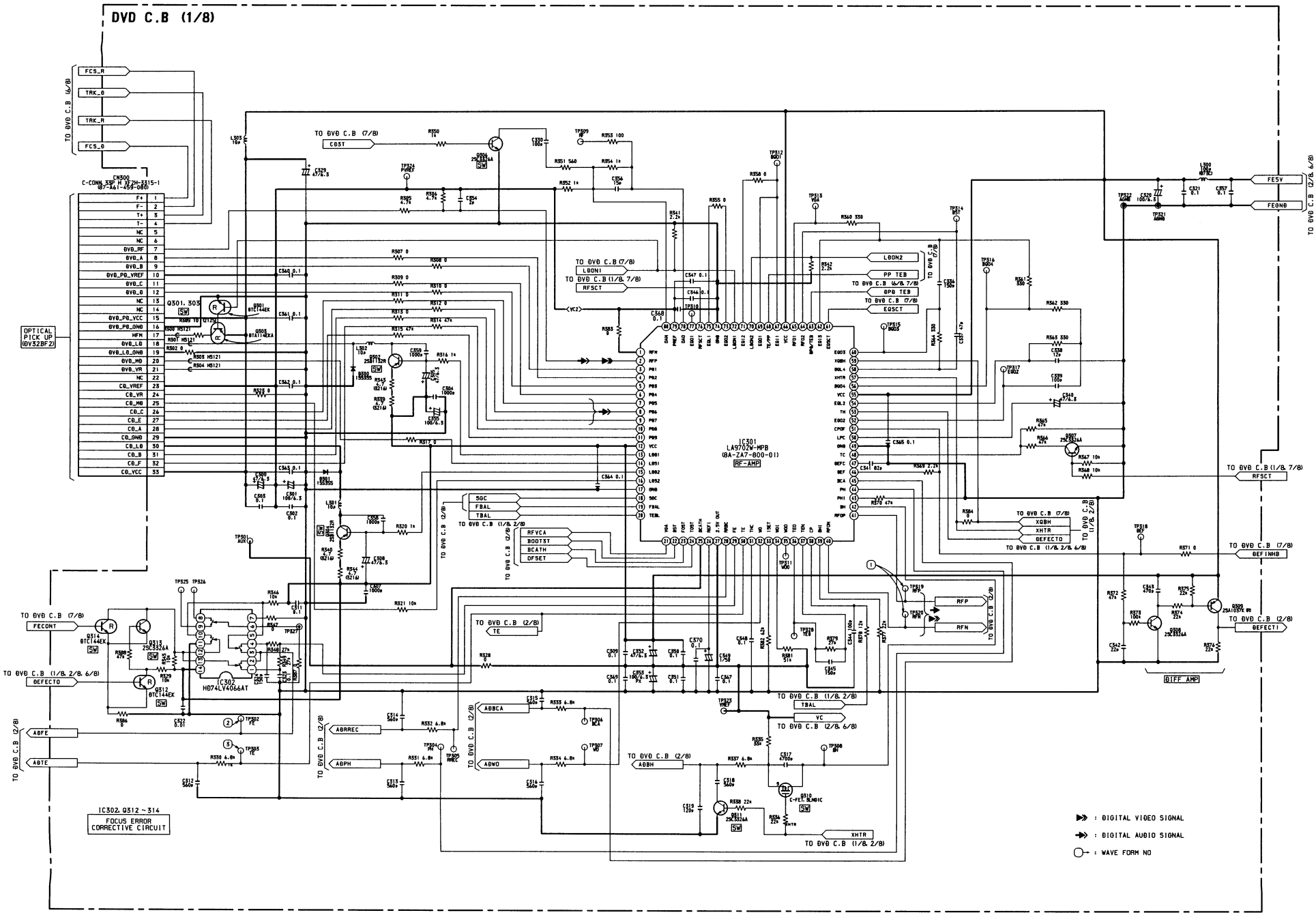
SCHEMATIC DIAGRAM-7/18 (FAN)

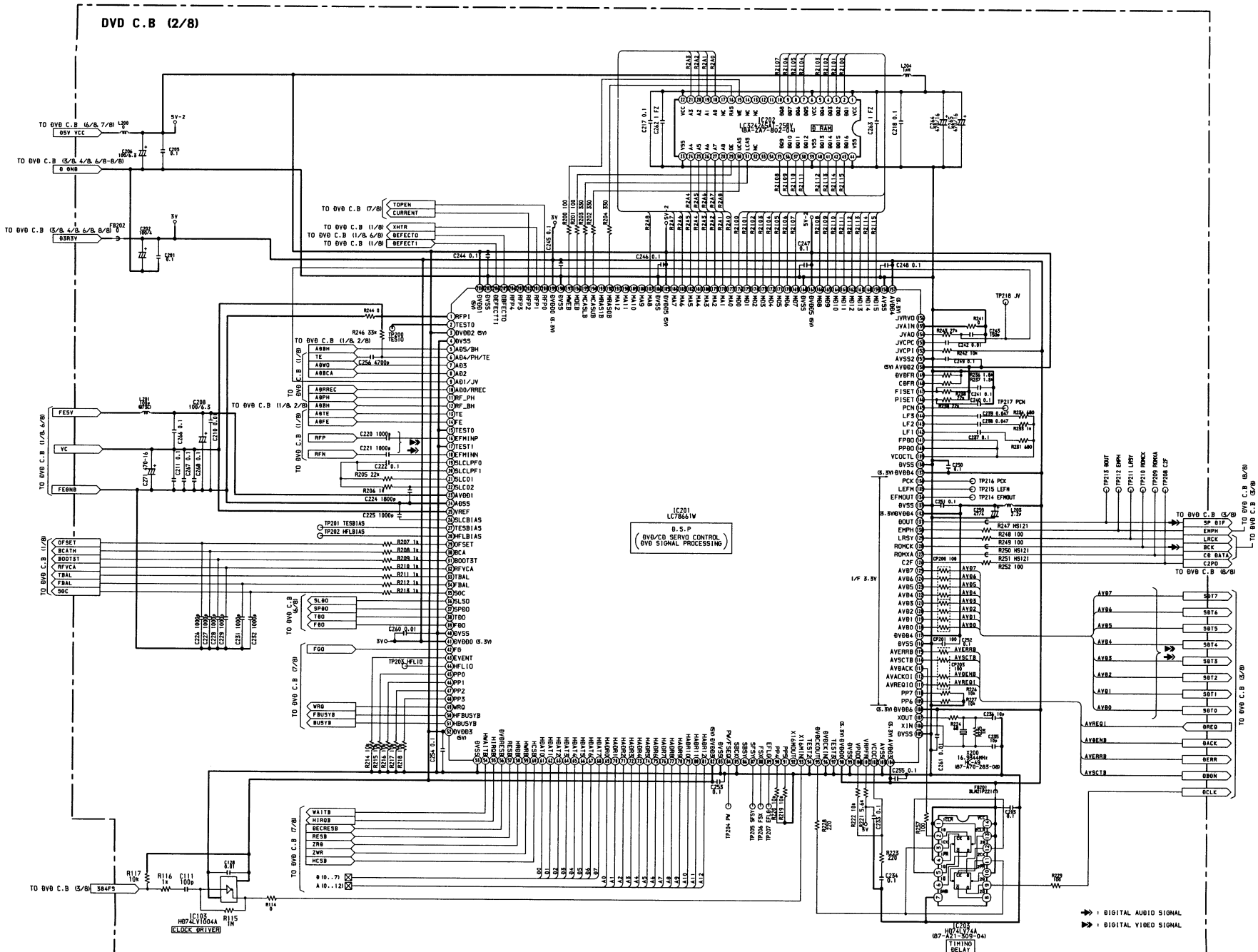


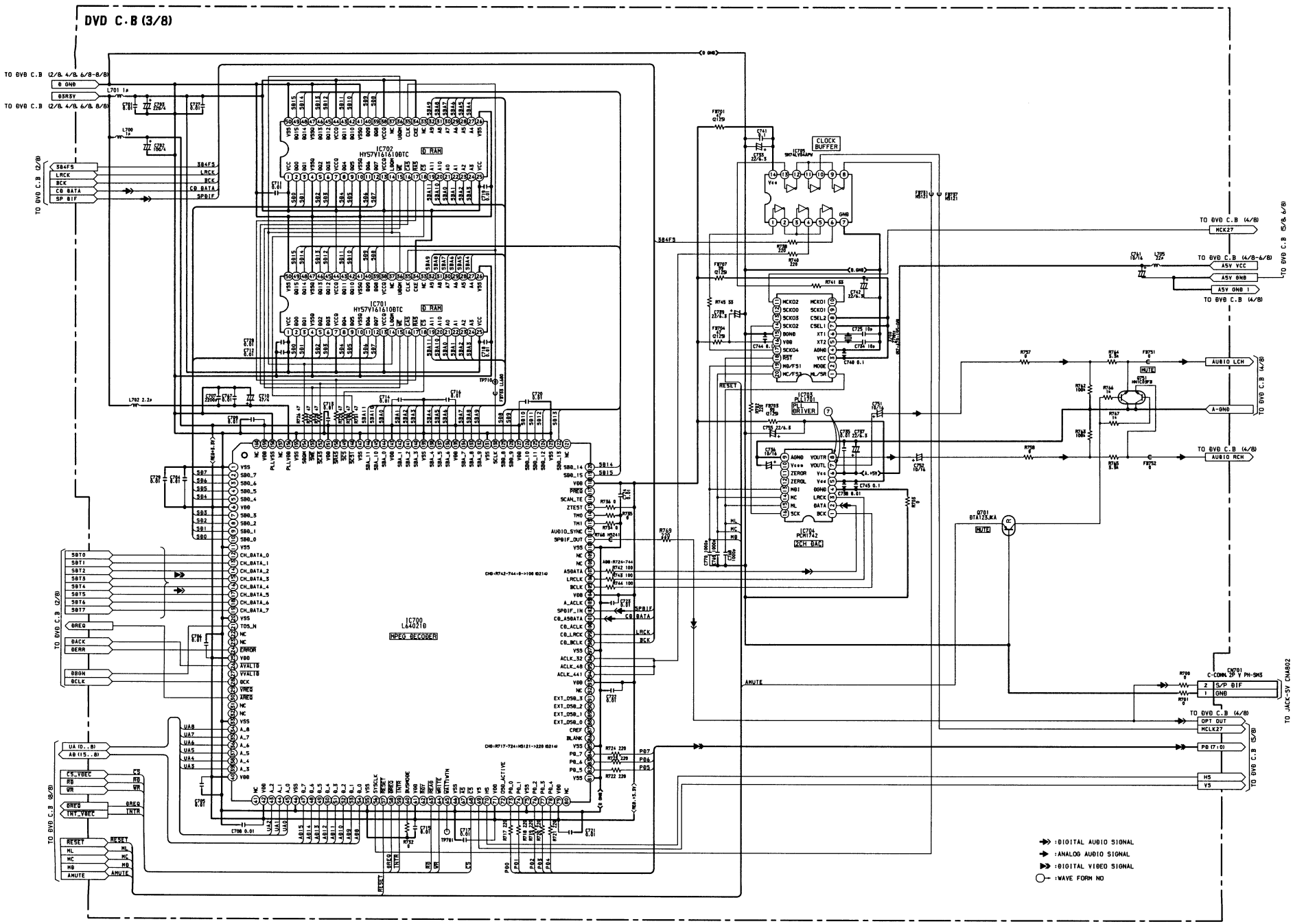

ĐVĐ C.B (COMPONENT SIĐE)
CN100 (Connector for Software Version upgrade)
OPTICAL PICK UP
(DV32BF2)
TO MAIN C.B CN303
TO MAIN C.B CN101
TO SUPPLY C.B CNA403
TO JACK-SV CN801
TO JACK-SV CNA802
OPTICAL BLOCK
DV32BF2
(MOTOR C.B)
IC602
IC904
IC100
IC201
IC701
IC702
IC803
IC802
IC403
IC404
IC402
CN402

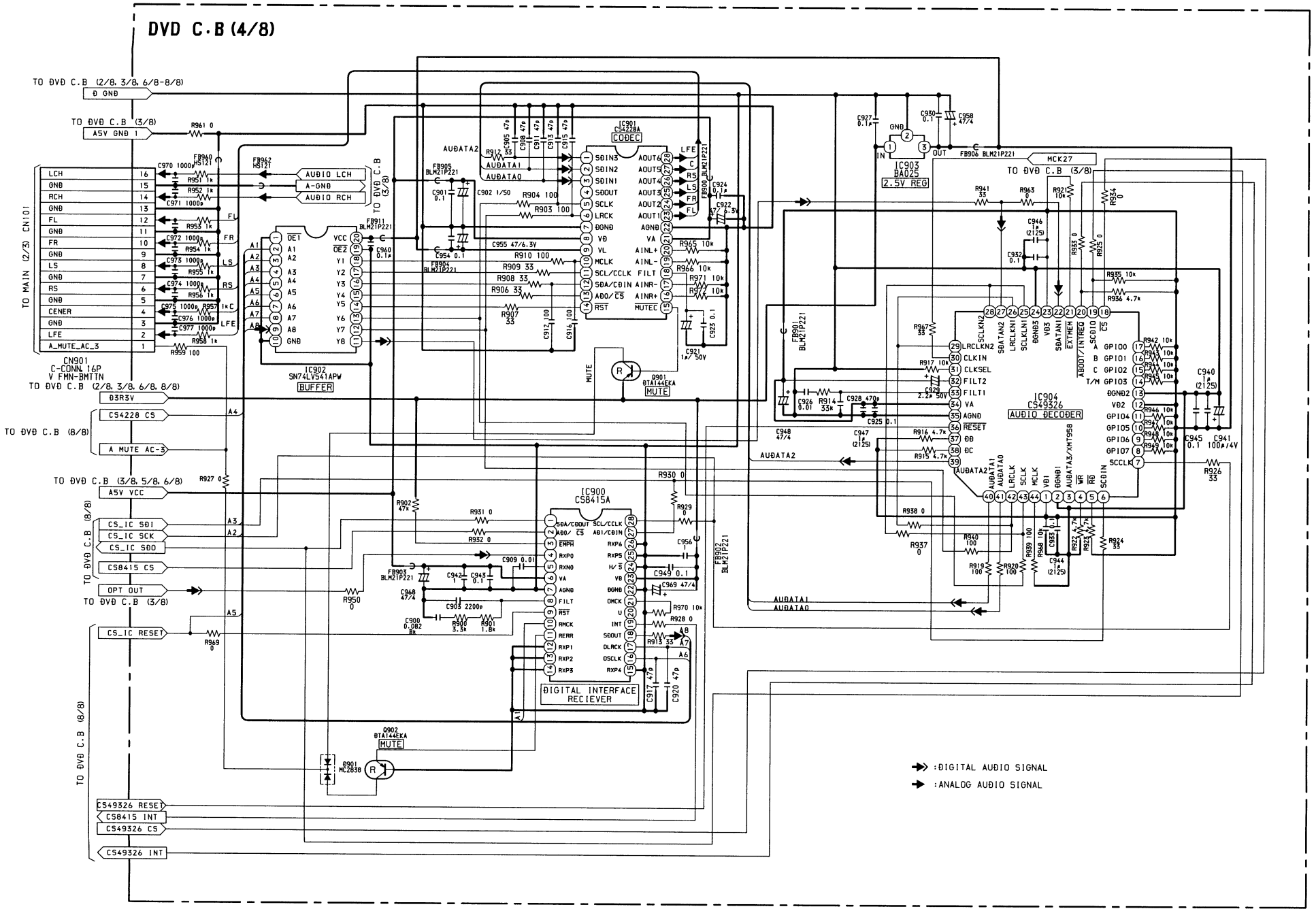
ĐVĐ C.B (CONĐUCTOR SIĐE)

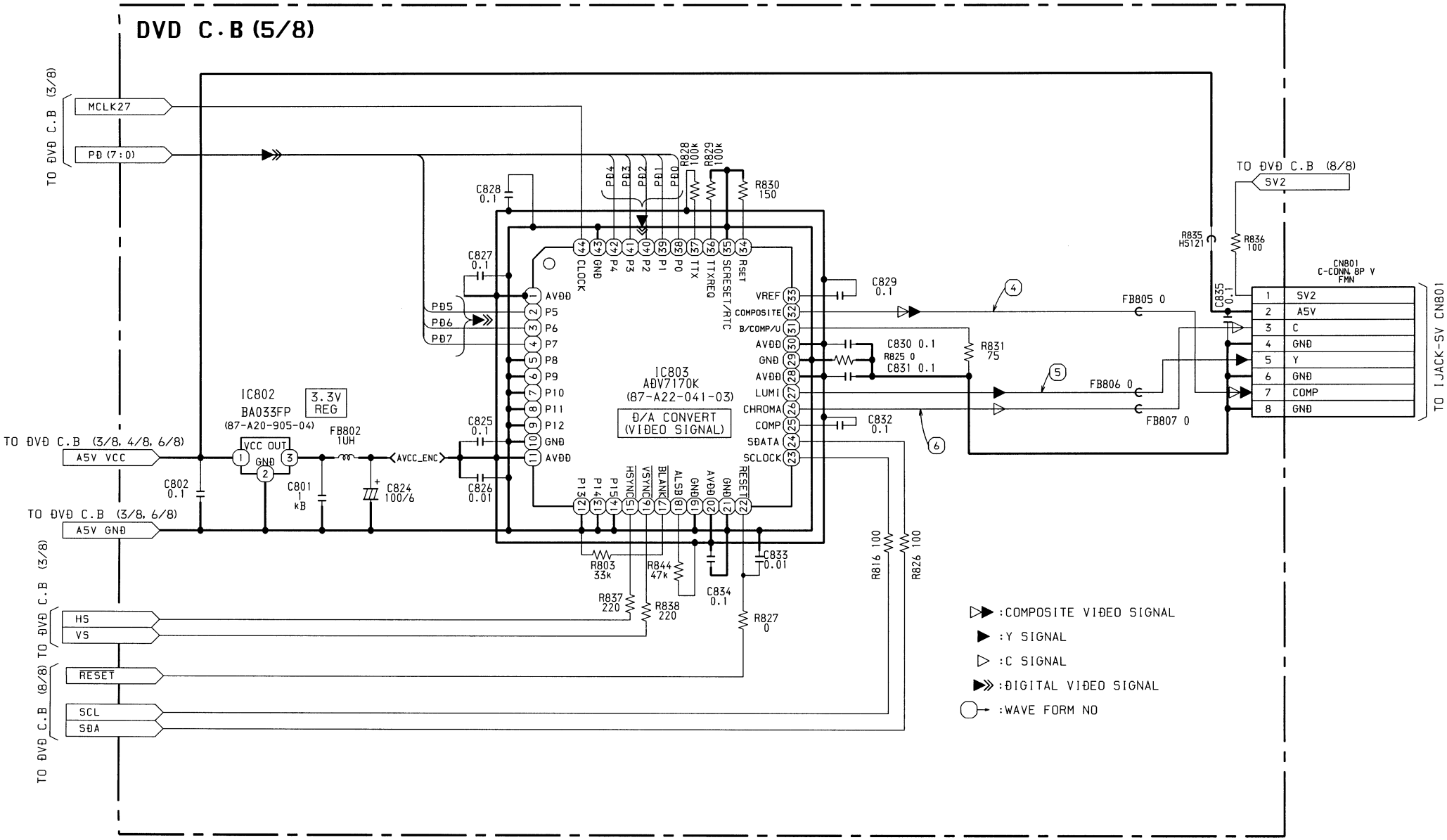


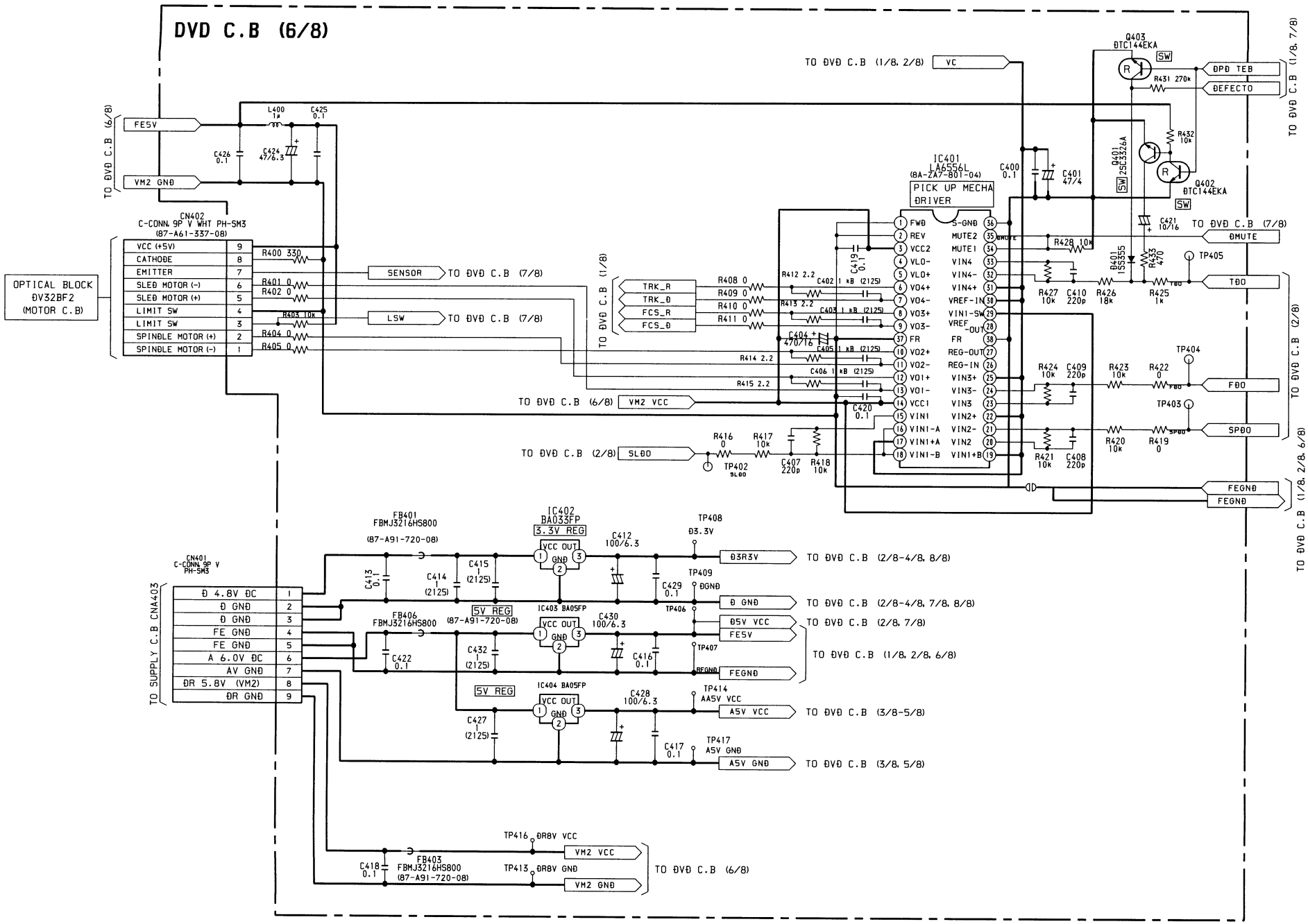

DVD C.B (1/8)
IC301
LA9702W-MPB
(8A-ZA7-800-01)
RF-AMP
IC302, Q312 ~ 314
FOCUS ERROR
CORRECTIVE CIRCUIT
IC302
HD74LV4066AT
OPTICAL
PICK UP
(DV32BF2)
DIFF AMP
: DIGITAL VIDEO SIGNAL
: DIGITAL AUDIO SIGNAL
: WAVE FORM NO

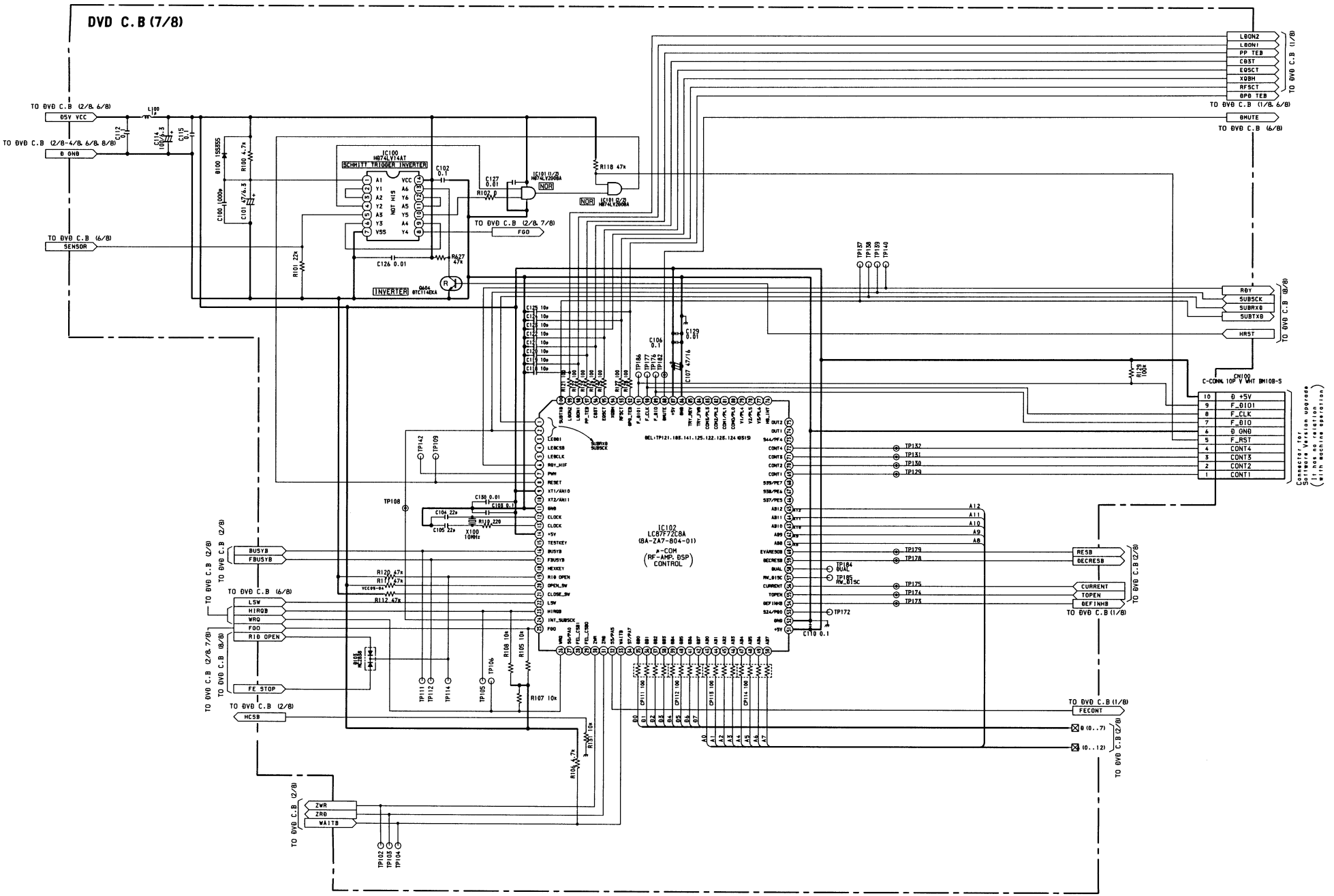

DVD C.B (2/8)
IC201
LC78661W
8.5.P
(DVD/CD SERVO CONTROL
DVD SIGNAL PROCESSING)
IC202
LC324256AM-250V
(DRAM)
IC203
HD74LV1G04A
CLOCK DRIVER
IC204
HD74LV1G74A
TIMING DELAY
: DIGITAL AUDIO SIGNAL
: DIGITAL VIDEO SIGNAL

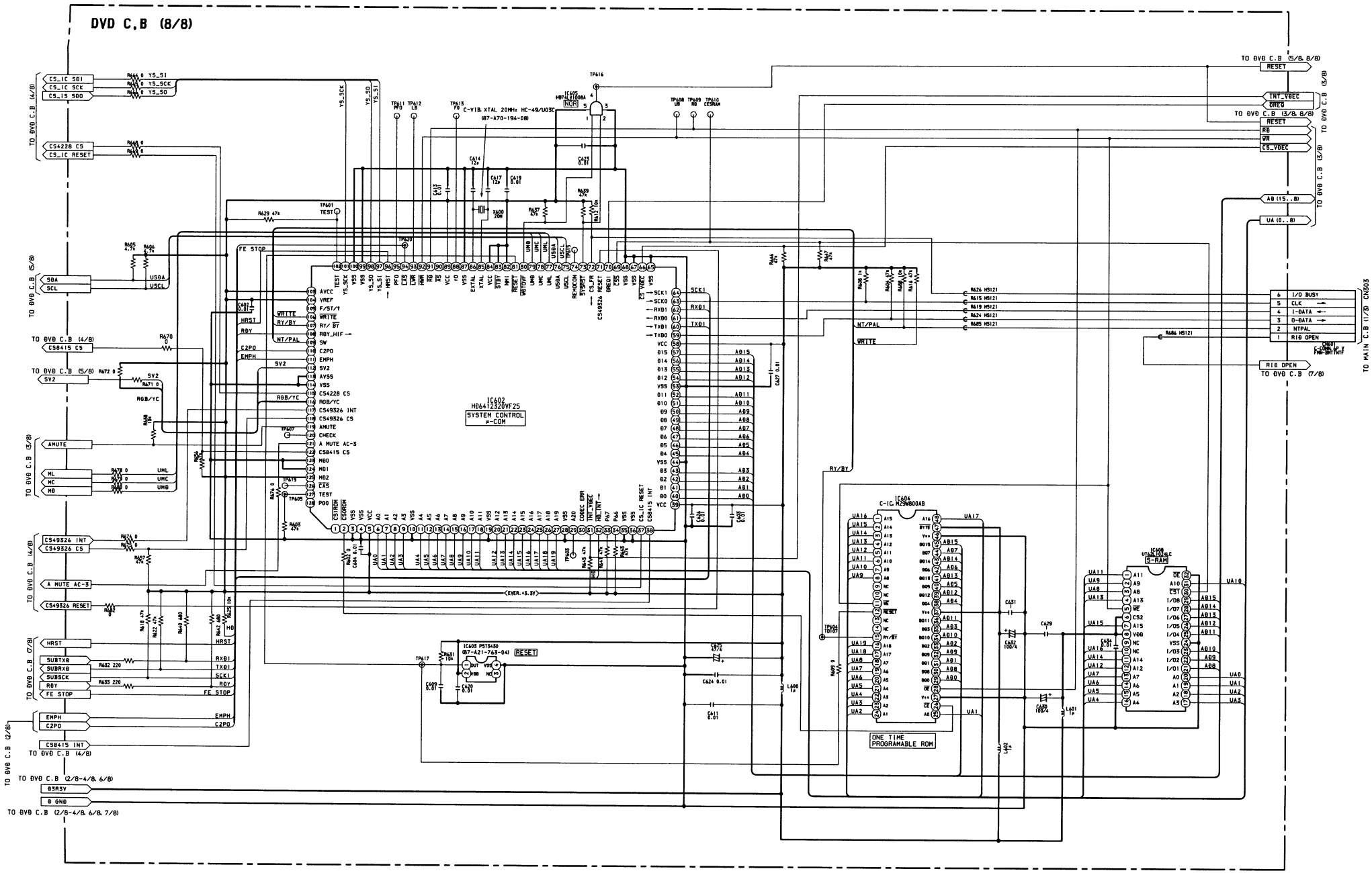

DVD C.B (3/8)
IC702
HY57V161610DTC
D RAM
IC701
HY57V161610DTC
D RAM
IC700
L640210
MPEG DECODER
IC705
SM74VS04PW
CLOCK BUFFER
IC703
PLL DRIVER
IC704
PCM1742
2CH DAC
CN701
C-CONN 2P Y PH-SMS
TO DVD C.B (2/8, 4/8, 6/8-8/8)
TO DVD C.B (4/8)
TO DVD C.B (4/8-6/8)
TO DVD C.B (5/8, 6/8)
TO JACK-SV CNA802
AUDIO LCH
AUDIO RCH
A-GND
A5V VCC
A5V GND
A5V GND 1
MCK27
OPT OUT
MCLK27
S/P DIF
GND
MUTE
AMUTE
RESET
: DIGITAL AUDIO SIGNAL
: ANALOG AUDIO SIGNAL
: DIGITAL VIDEO SIGNAL
: WAVE FORM NO

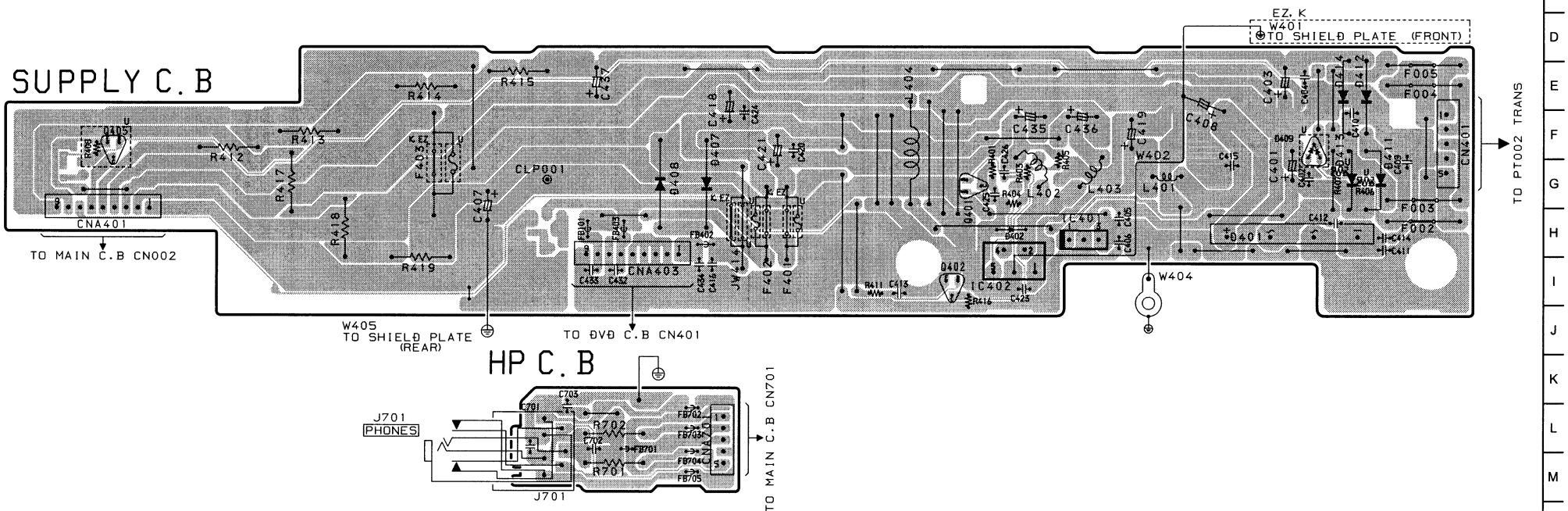

DVD C.B (4/8)
TO DVD C.B (2/8, 3/8, 6/8-8/8)
D GND
TO DVD C.B (3/8)
A5V GND 1
TO MAIN (2/3) CN101
LCH
GND
RCH
FL
FR
LS
RS
CENER
LFE
A_MUTE_AC_3
AUDIO LCH
A-GND
AUDIO RCH
CN901
C-CONN 16P
V FMN-BMTTN
D3R3V
CS4228 CS
A MUTE AC-3
A5V VCC
CS_IC SDI
CS_IC SCK
CS_IC SDO
CS8415 CS
OPT OUT
CS_IC RESET
CS549326 RESET
CS8415 INT
CS549326 CS
CS549326 INT
IC902
SN74LV541APW
BUFFER
IC901
CS4228A
CODEC
IC900
CS8415A
DIGITAL INTERFACE
RECIEVER
IC903
BA025
2.5V REG
IC904
CS49326
AUDIO DECODER
MCK27
Q901
BTA144EKA
MUTE
Q902
BTA144EKA
MUTE
D901
MC2838
AUDATA2
AUDATA1
AUDATA0
:DIGITAL AUDIO SIGNAL
:ANALOG AUDIO SIGNAL


DVD C.B (5/8)
TO ĐVĐ C.B (3/8)
MCLK27
PĐ (7:0)
TO ĐVĐ C.B (8/8)
SV2
IC802
BA033FP
(87-A20-905-04)
3.3V REG
IC803
AĐV7170K
(87-A22-041-03)
Đ/A CONVERT (VIĐEO SIGNAL)
TO ĐVĐ C.B (3/8, 4/8, 6/8)
A5V VCC
TO ĐVĐ C.B (3/8, 6/8)
A5V GNĐ
FB802 1UH
AVCC_ENC
C828 0.1
C827 0.1
C825 0.1
C826 0.01
C802 0.1
C801 1 kB
C824 100/6
C829 0.1
C830 0.1
C831 0.1
C832 0.1
C833 0.01
C834 0.1
C835 0.1
R828 100k
R829 100k
R830 150
R831 75
R825 0
R803 33k
R844 47k
R837 220
R838 220
R827 0
R816 100
R826 100
R835 HS121
R836 100
FB805 0
FB806 0
FB807 0
CN801 C-CONN 8P V FMN
TO IJACK-SV CN801
HS
VS
RESET
SCL
SĐA
:COMPOSITE VIĐEO SIGNAL
:Y SIGNAL
:C SIGNAL
:ĐIGITAL VIĐEO SIGNAL
:WAVE FORM NO

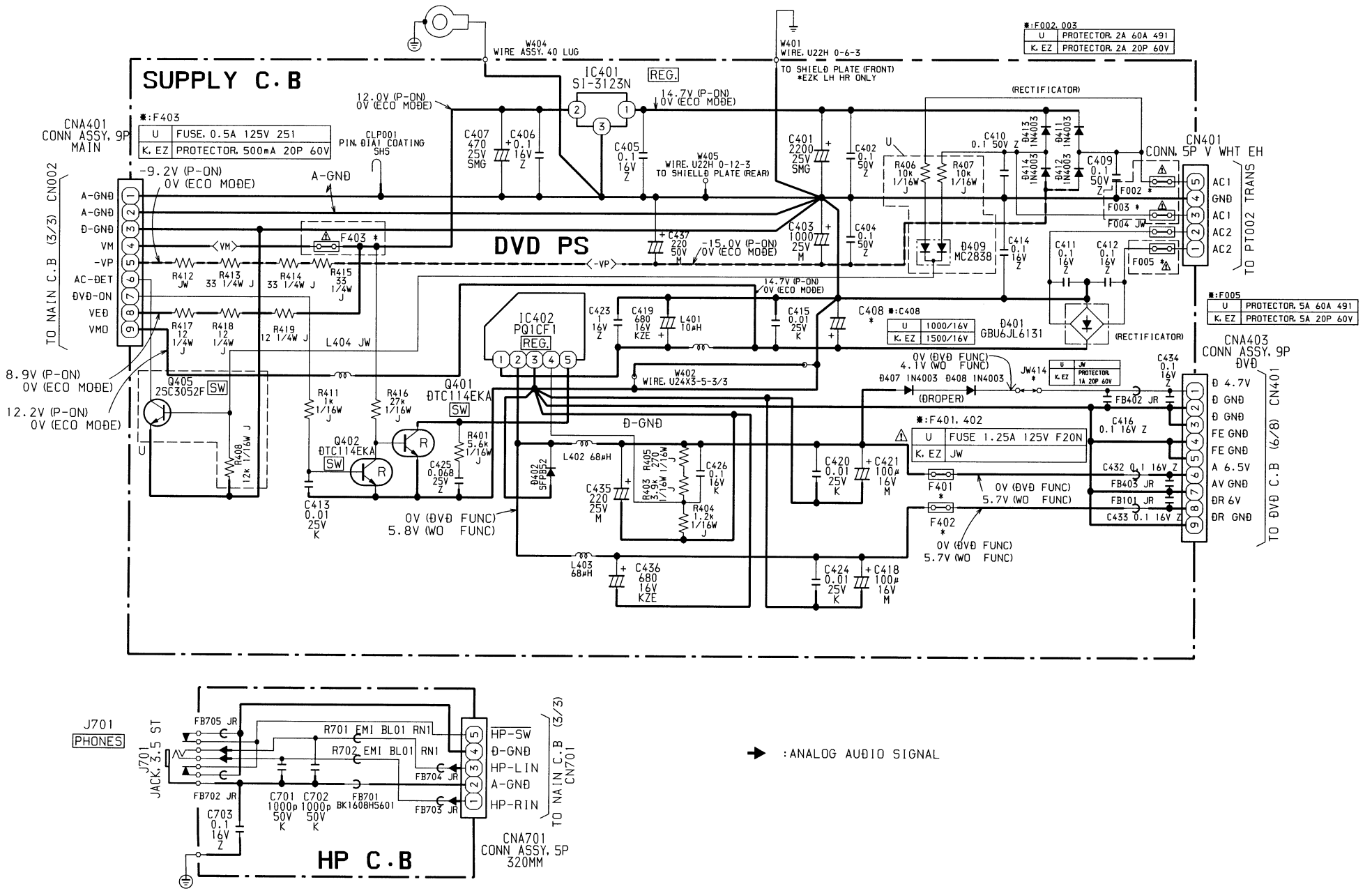

DVD C.B (6/8)
TO DVD C.B (6/8)
FE5V
VM2 GND
L400
C425 0.1
C426 0.1
C424 47/6.3
CN402
C-CONN 9P V WHT PH-SM3
(87-A61-337-08)
VCC (+5V) 9
CATHODE 8
EMITTER 7
SLED MOTOR (-) 6
SLED MOTOR (+) 5
LIMIT SW 4
LIMIT SW 3
SPINDLE MOTOR (+) 2
SPINDLE MOTOR (-) 1
OPTICAL BLOCK
DV32BF2
(MOTOR C.B)
R400 330
R401 0
R402 0
R403 10k
R404 0
R405 0
SENSOR
LSW
TO DVD C.B (7/8)
TO DVD C.B (1/8)
TRK_R
TRK_B
FCS_R
FCS_B
R408 0
R409 0
R410 0
R411 0
R412 2.2
R413 2.2
R414 2.2
R415 2.2
C402 1 kB (2125)
C403 1 kB (2125)
C404 470/16
C405 1 kB (2125)
C406 1 kB (2125)
TO DVD C.B (6/8) VM2 VCC
TO DVD C.B (2/8) SLED
R416 0
R417 10k
R418 10k
C407 220p
TP402 SLED
IC401
LA6556L
(8A-ZA7-801-04)
PICK UP MECHA
DRIVER
C400 0.1
C401 47/4
C419 0.1
C420 0.1
FWD
REV
VCC2
VLO-
VLO+
VO4+
VO4-
VO3+
VO3-
FR
VO2+
VO2-
VO1+
VO1-
VCC1
VIN1
VIN1-A
VIN1+A
VIN1+B
S-GND
MUTE2
MUTE1
VIN4
VIN4-
VIN4+
VREF-IN
VIN1-SW
VREF-OUT
FR
REG-OUT
REG-IN
VIN3+
VIN3-
VIN3
VIN2+
VIN2-
VIN2
Q403
DTC144EKA
SW
R
R431 270k
DPD TEB
DEFECTO
TO DVD C.B (1/8, 7/8)
Q401
2SC3326A
R432 10k
Q402
DTC144EKA
C421 10/16
TO DVD C.B (7/8)
DMUTE
R428 10k
D401
1SS355
R433 470
TP405
TDO
R427 10k
C410 220p
R426 18k
R425 1k
TP404
FDO
R424 10k
C409 220p
R423 10k
R422 0
TP403
SPDO
R420 10k
R419 0
R421 10k
C408 220p
FEGND
FEGND
TO DVD C.B (1/8, 2/8, 6/8)
TO DVD C.B (2/8)
FB401
FBMJ3216HS800
(87-A91-720-08)
IC402
BA033FP
3.3V REG
C412 100/6.3
TP408
D3.3V
D3R3V
TO DVD C.B (2/8-4/8, 8/8)
C413 0.1
C414 1 (2125)
C415 1 (2125)
C429 0.1
TP409
DGND
D GND
TO DVD C.B (2/8-4/8, 7/8, 8/8)
CN401
C-CONN 9P V
PH-SM3
TO SUPPLY C.B CN4403
D 4.8V DC 1
D GND 2
D GND 3
FE GND 4
FE GND 5
A 6.0V DC 6
AV GND 7
DR 5.8V (VM2) 8
DR GND 9
FB406
FBMJ3216HS800
(87-A91-720-08)
5V REG
IC403 BA05FP
C430 100/6.3
TP406
D5V VCC
FE5V
C422 0.1
C432 1 (2125)
C416 0.1
TP407
FEGND
TO DVD C.B (2/8, 7/8)
TO DVD C.B (1/8, 2/8, 6/8)
5V REG
IC404 BA05FP
C428 100/6.3
TP414
AA5V VCC
A5V VCC
TO DVD C.B (3/8-5/8)
C427 1 (2125)
C417 0.1
TP417
A5V GND
A5V GND
TO DVD C.B (3/8, 5/8)
TP416 DR8V VCC
VM2 VCC
FB403
FBMJ3216HS800
(87-A91-720-08)
C418 0.1
TP413 DR8V GND
VM2 GND
TO DVD C.B (6/8)

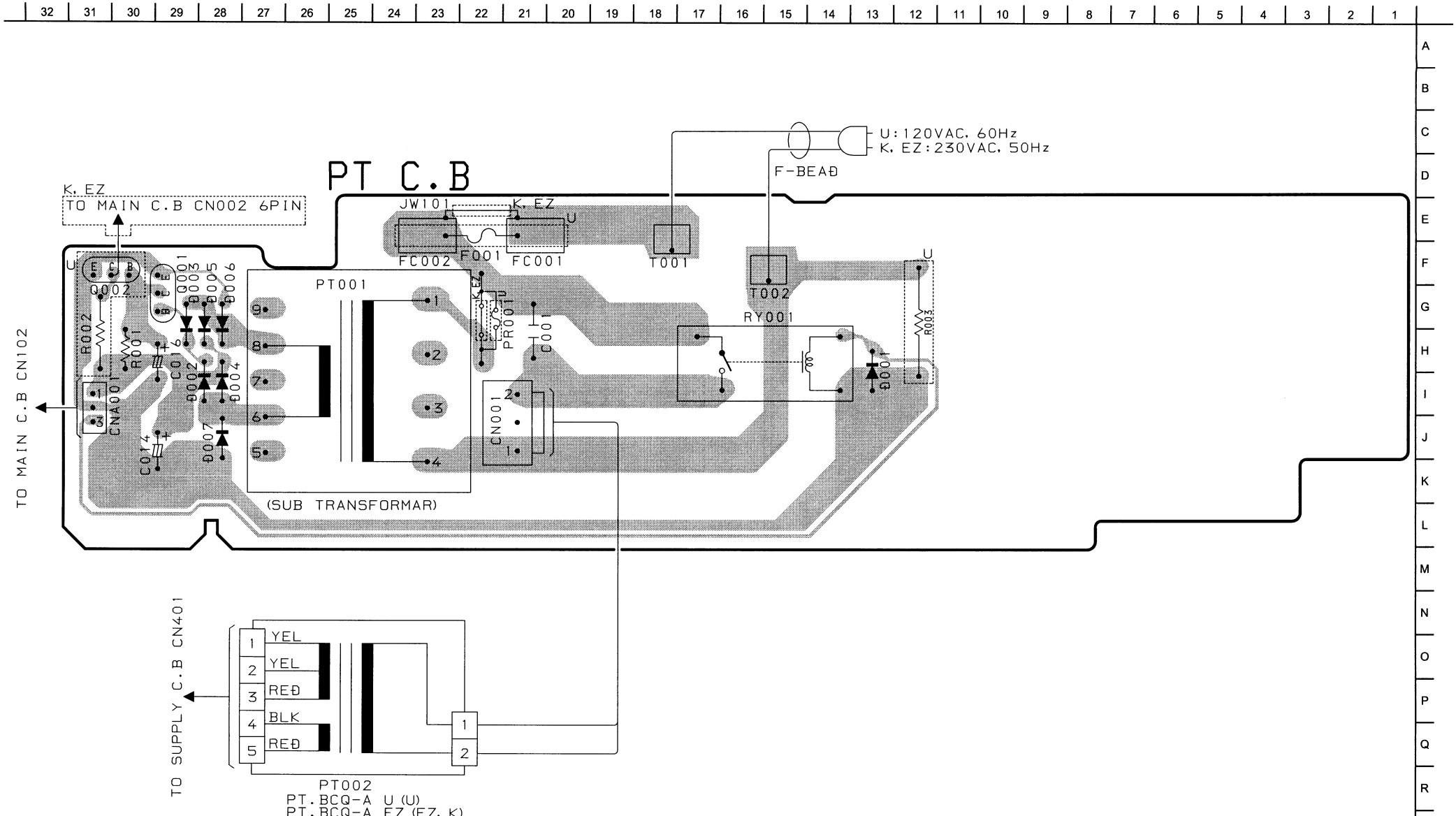

DVD C.B (7/8)
TO DVD C.B (2/8, 6/8)
5V VCC
TO DVD C.B (2/8~4/8, 6/8, 8/8)
0 GND
TO DVD C.B (6/8)
SENSOR
IC100
MB74LV14AT
SCHMITT TRIGGER INVERTER
INVERTER
IC101 (1/2)
MB74LV2G08A
NOR
TO DVD C.B (2/8, 7/8)
FGO
IC102
LC87F72C8A
(8A-ZA7-804-01)
µ-COM
(RF-AMP, DSP)
CONTROL
X100
10MHz
TO DVD C.B (1/8)
LBON2
LBON1
PP TEB
CRST
EQSCT
XQBH
RFSCT
BPB TEB
TO DVD C.B (1/8, 6/8)
BMUTE
TO DVD C.B (6/8)
RBY
SUBSCK
SUBRXB
SUBTXB
HRST
TO DVD C.B (2/8)
CN100
C-CONN 10P V WHT BM10B-S
0 +5V
F_D101
F_CLK
F_D10
0 GND
F_RST
CONT4
CONT3
CONT2
CONT1
Connector for Software Version upgrade (It has no relation with machine operation.)
BUSYB
FBUSYB
TO DVD C.B (6/8)
LSW
HIRQB
WRQ
FGO
R10 OPEN
FE STOP
HCSB
ZWR
ZRQ
WAITB
RESB
DECRESB
CURRENT
TOPEN
DEFINHB
TO DVD C.B (1/8)
FECONT
D (0..7)
(0..12)
TO DVD C.B (2/8)


DVD C,B (8/8)
IC602
HD6412320VF25
SYSTEM CONTROL
e-COM
IC606
C-IC M29W800AB
ONE TIME
PROGRAMABLE ROM
IC605
HD74LV1G08A
IC603 PST3450
(87-A21-765-04)
RESET
X600 20M
C-V1B XTAL 20MHz HC-49/U03C
(87-A70-194-08)
IC608
U1A6124LC
S-RAM
TO DVD C,B (4/8)
TO DVD C,B (5/8)
TO DVD C,B (6/8)
TO DVD C,B (7/8)
TO DVD C,B (2/8-4/8, 6/8)
TO DVD C,B (2/8-4/8, 6/8, 7/8)
TO MAIN C,B (1/5) CN503
CS_IC SDI
CS_IC SCK
CS_IC SDO
CS4228 CS
CS_IC RESET
SDA
SCL
CS8415 CS
5V2
AMUTE
ML
MC
MD
C549326 INT
C549326 CS
A MUTE AC-3
C549326 RESET
HRST
SUBTXD
SUBRXD
SUBSCK
RBY
FE STOP
EMPH
C2PO
CS8415 INT
03R3V
0 GND
RESET
INT_VDEC
DREQ
RD
WR
CS_VDEC
AD (15..8)
UA (0..8)
I/O BUSY
CLK
I-DATA
O-DATA
NTPAL
R10 OPEN
WRITE
RY/BY
NT/PAL
RGB/YC
SCK1
RXD1
TXD1

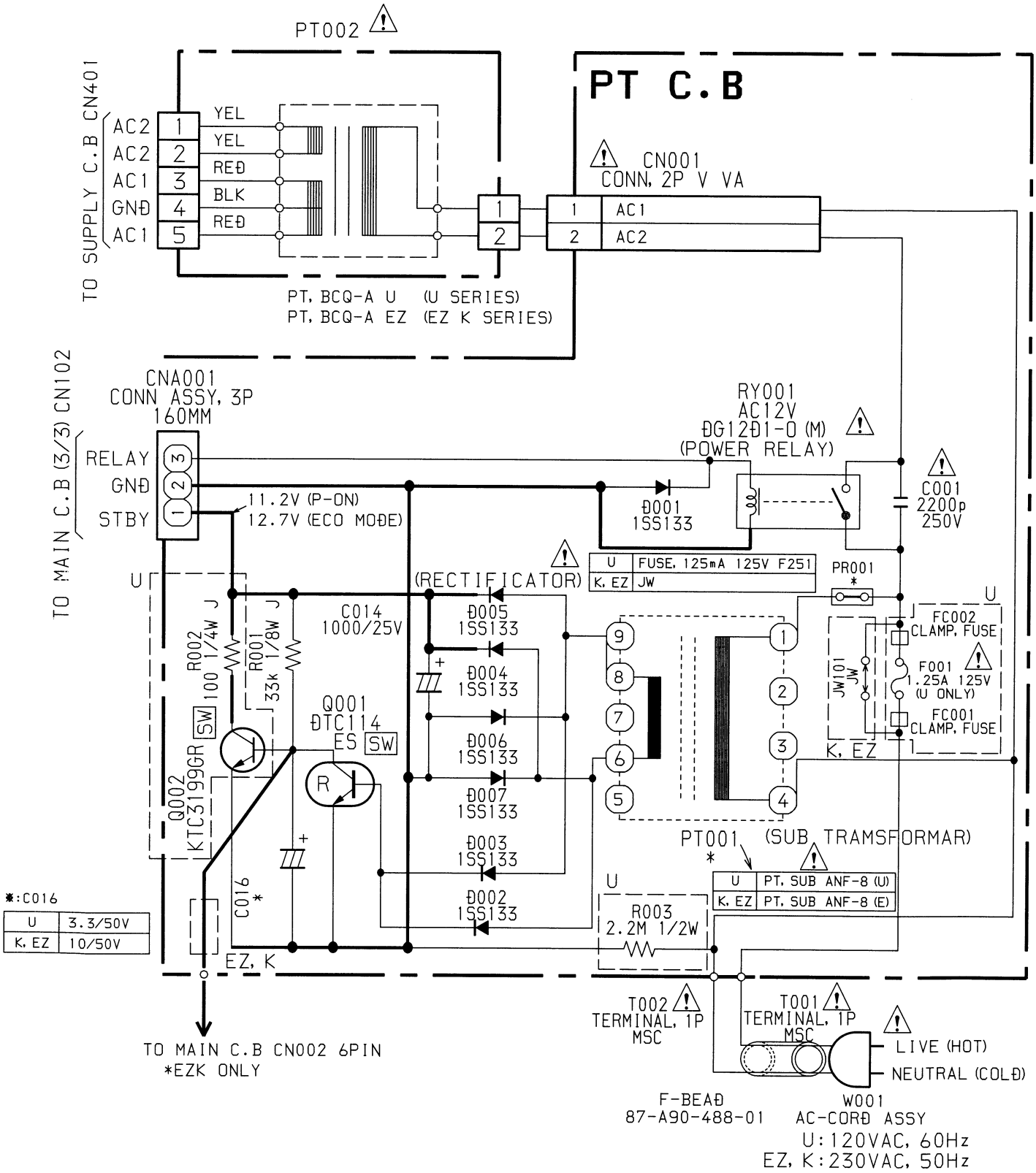

SUPPLY C.B
EZ. K
W401
TO SHIELD PLATE (FRONT)
TO PT002 TRANS
CNA401
TO MAIN C.B CN002
W405
TO SHIELD PLATE
(REAR)
TO DVD C.B CN401
CLP001
CNA403
IC401
IC402
W402
W404
L401
L402
L403
HP C.B
J701
PHONES
TO MAIN C.B CN701
CNA701
R702
R701

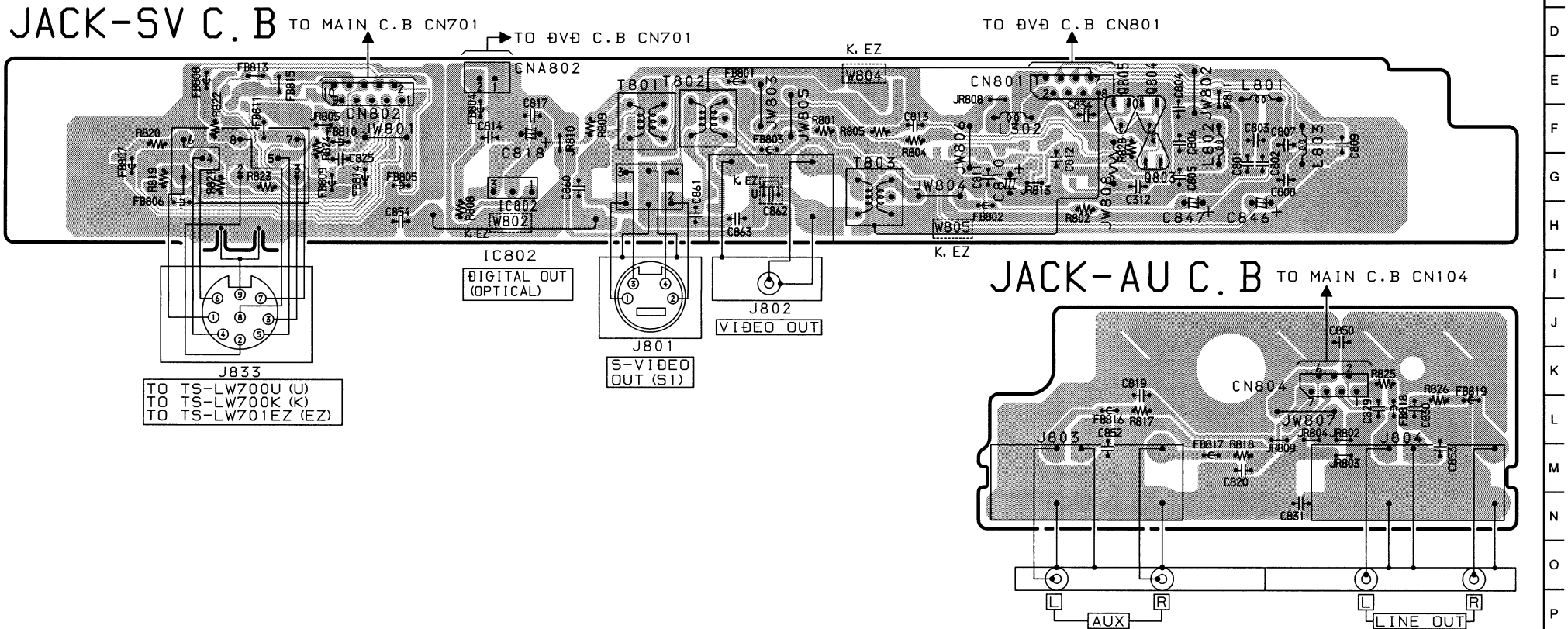
SCHEMATIC DIAGRAM-16/18 (SUPPLY, HP)

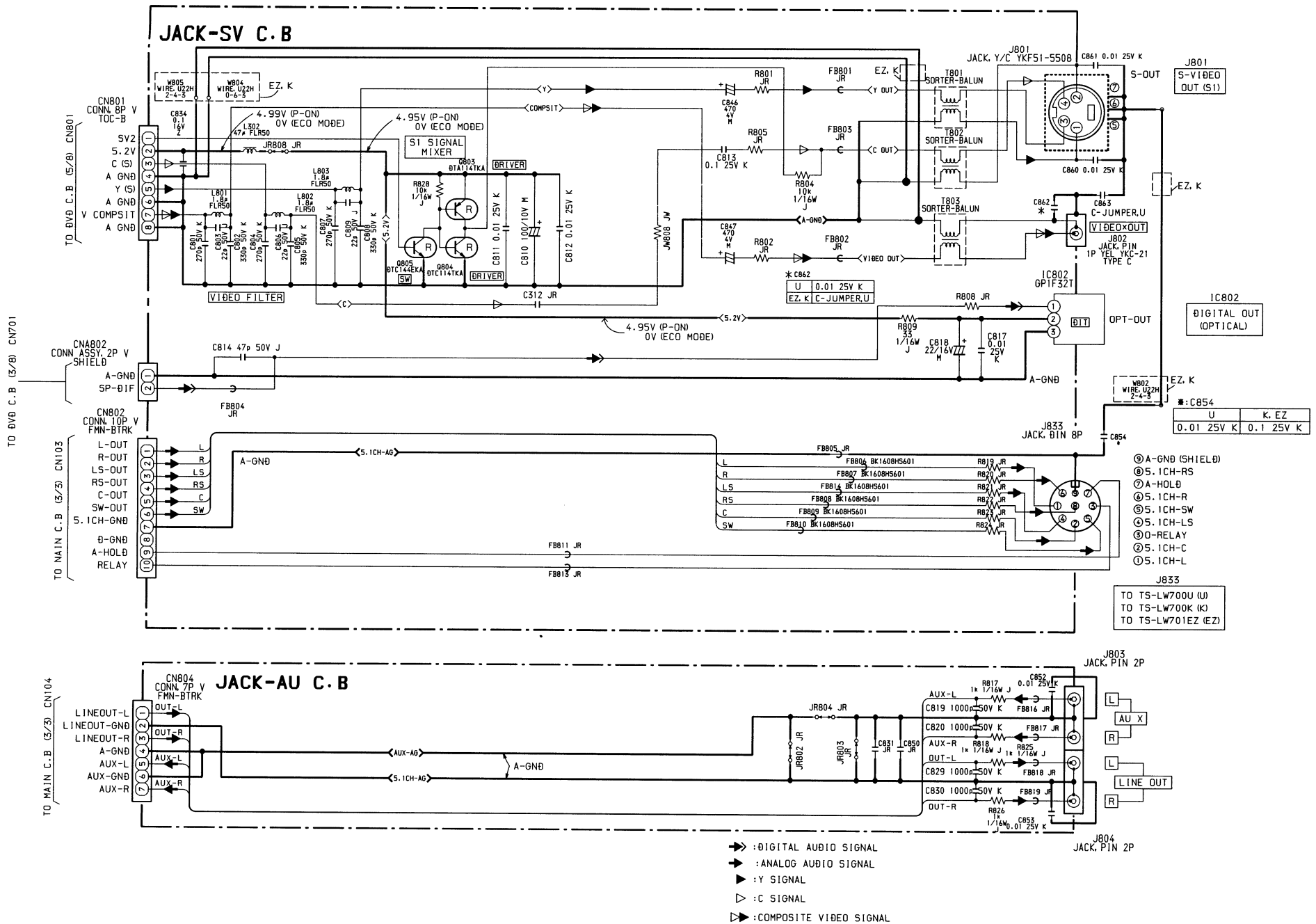



PT C.B
K, EZ
TO MAIN C.B CN002 6PIN
JW101
K, EZ
U
FC002
F001
FC001
T001
U:120VAC, 60Hz
K, EZ:230VAC, 50Hz
F-BEAD
T002
RY001
U
PT001
K, EZ
PR001
C001
D001
R003
Q002
R002
R001
C013
D002
D003
D004
D005
D006
D007
C014
CNA001
CN001
TO MAIN C.B CN102
(SUB TRANSFORMAR)
TO SUPPLY C.B CN401
1 YEL
2 YEL
3 RED
4 BLK
5 RED
PT002
PT.BCQ-A U (U)
PT.BCQ-A EZ (EZ, K)

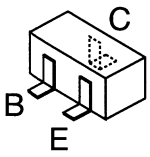
SCHEMATIC DIAGRAM-17/18 (PT)



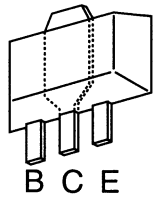

JACK-SV C.B
TO MAIN C.B CN701
TO ĐVĐ C.B CN701
TO ĐVĐ C.B CN801
K, EZ
CNA802
CN802
CN801
JW801
JW802
JW803
JW804
JW805
JW806
JW807
T801
T802
T803
IC802
W802
W804
W805
L501
L502
L801
L802
L803
Q803
Q804
Q805
J833
TO TS-LW700U (U)
TO TS-LW700K (K)
TO TS-LW701EZ (EZ)
IC802
ĐIGITAL OUT
(OPTICAL)
J801
S-VIĐEO
OUT (S1)
J802
VIĐEO OUT
JACK-AU C.B
TO MAIN C.B CN104
CN804
J803
J804
AUX
LINE OUT
L
R


JACK-SV C.B
JACK-AU C.B
CN801 CONN. 8P V TOC-B
CN802 CONN. 10P V FMN-BTRK
CNA802 CONN ASSY. 2P V SHIELD
CN804 CONN. 7P V FMN-BTRK
J801 JACK. Y/C YKF51-5508
J802 JACK. PIN 1P YEL YKC-21 TYPE C
J803 JACK. PIN 2P
J804 JACK. PIN 2P
J833 JACK. DIN 8P
IC802 GP1F32T
T801 SORTER-BALUN
T802 SORTER-BALUN
T803 SORTER-BALUN
S1 SIGNAL MIXER
4.99V (P-ON) 0V (ECO MODE)
4.95V (P-ON) 0V (ECO MODE)
VIDEO FILTER
S-OUT
OPT-OUT
DIGITAL OUT (OPTICAL)
J801 S-VIDEO OUT (S1)
J833 TO TS-LW700U (U) TO TS-LW700K (K) TO TS-LW701EZ (EZ)
*C854 U: 0.01 25V K | K, EZ: 0.1 25V K
*C862 U: 0.01 25V K | EZ, K: C-JUMPER,U
:DIGITAL AUDIO SIGNAL
:ANALOG AUDIO SIGNAL
:Y SIGNAL
:C SIGNAL
:COMPOSITE VIDEO SIGNAL

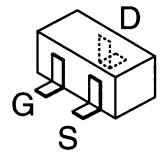
TRANSISTOR ILLUSTRATION-1/1



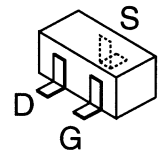
2SA1037K
2SA1235
2SC2714
2SC3052F
2SC3326A
2SD1306E
CSD1306E
DTA114EK
DTA114TKA
DTA144TKA
DTC114TKA
DTC144EK
KRA102S
RT1N144C
RT1P141C
RT1P144C



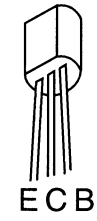
2SB1132



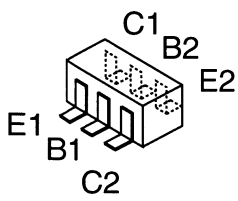
2SK2158
3LN01C



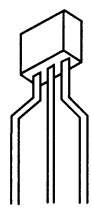
2SK360



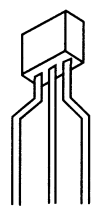
CSC4115BC
2SA1980G



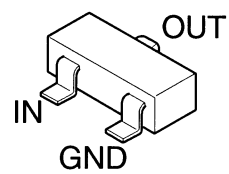
HN1C03F



DTC114ESA



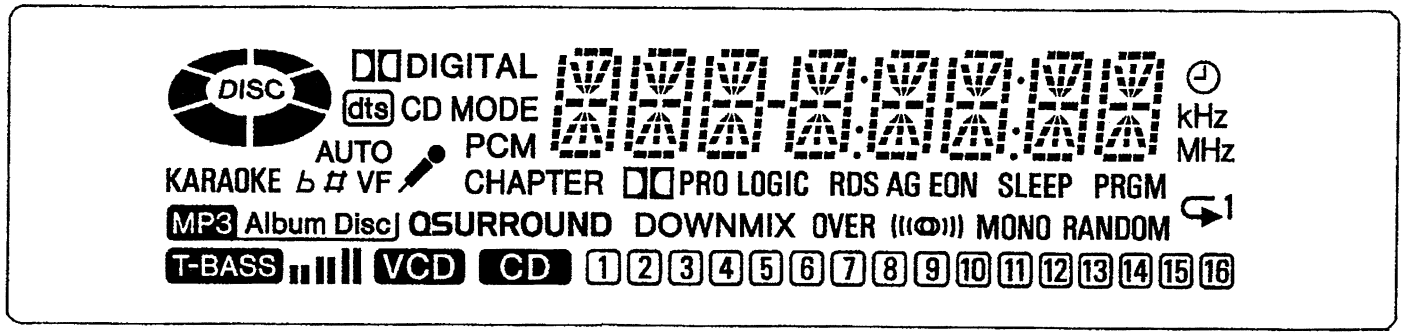
2SC4115S
KTC3199GR



DTA123JKA
DTA144EKA
DTC114EKA
DTC124EKA

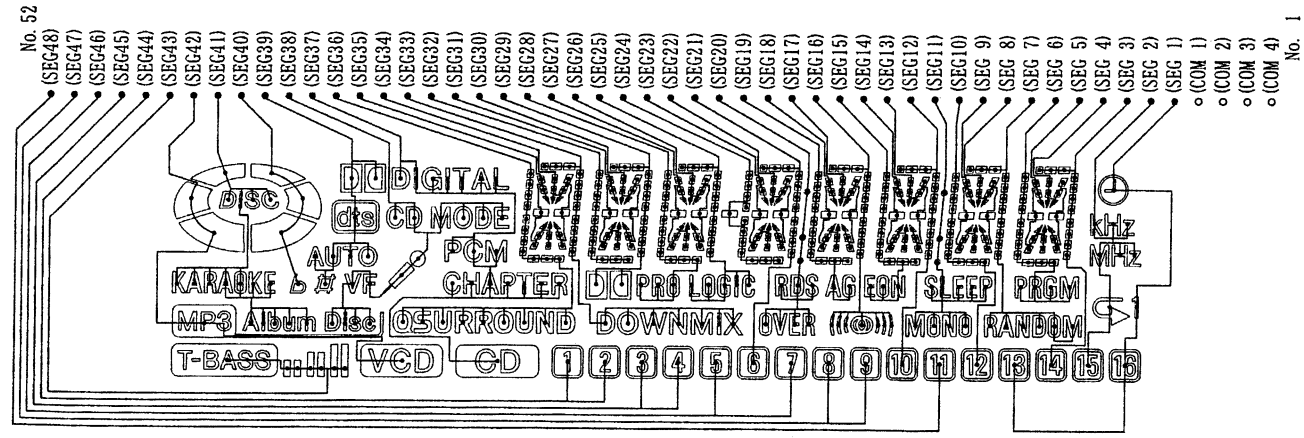
FL (BCQ-0) GRID ASSIGNMENT/ANODE CONNECTION-1/1

GRID ASSIGNMENT

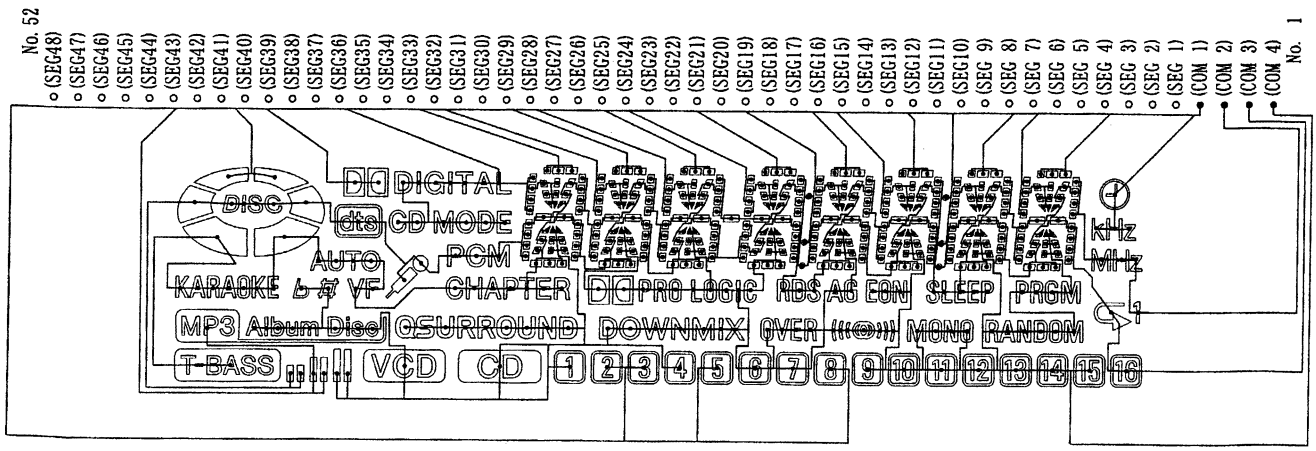


ANODE CONNECTION

< SEGMENT >


No. 52
(SEG48) (SEG47) (SEG46) (SEG45) (SEG44) (SEG43) (SEG42) (SEG41) (SEG40) (SEG39) (SEG38) (SEG37) (SEG36) (SEG35) (SEG34) (SEG33) (SEG32) (SEG31) (SEG30) (SEG29) (SEG28) (SEG27) (SEG26) (SEG25) (SEG24) (SEG23) (SEG22) (SEG21) (SEG20) (SEG19) (SEG18) (SEG17) (SEG16) (SEG15) (SEG14) (SEG13) (SEG12) (SEG11) (SEG10) (SEG 9) (SEG 8) (SEG 7) (SEG 6) (SEG 5) (SEG 4) (SEG 3) (SEG 2) (SEG 1) (COM 1) (COM 2) (COM 3) (COM 4) No. 1
DISC
DIGITAL
dts CD MODE
AUTO
PCM
KARAOKE
CHAPTER
PRO LOGIC
RDS AG EON SLEEP PRGM
MP3 Album Disc
SURROUND
DOWNMIX OVER
MONO RANDOM
T-BASS
VCD
CD
kHz
MHz

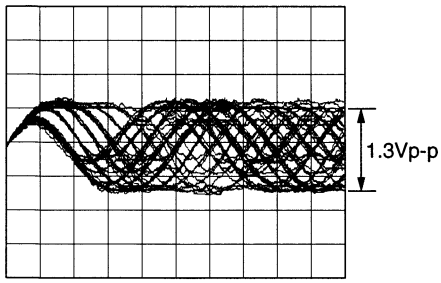
< COMMON >


No. 52
(SEG48) (SEG47) (SEG46) (SEG45) (SEG44) (SEG43) (SEG42) (SEG41) (SEG40) (SEG39) (SEG38) (SEG37) (SEG36) (SEG35) (SEG34) (SEG33) (SEG32) (SEG31) (SEG30) (SEG29) (SEG28) (SEG27) (SEG26) (SEG25) (SEG24) (SEG23) (SEG22) (SEG21) (SEG20) (SEG19) (SEG18) (SEG17) (SEG16) (SEG15) (SEG14) (SEG13) (SEG12) (SEG11) (SEG10) (SEG 9) (SEG 8) (SEG 7) (SEG 6) (SEG 5) (SEG 4) (SEG 3) (SEG 2) (SEG 1) (COM 1) (COM 2) (COM 3) (COM 4) No. 1
DISC
DIGITAL
dts CD MODE
AUTO
PCM
KARAOKE
CHAPTER
PRO LOGIC
RDS AG EON SLEEP PRGM
MP3 Album Disc
SURROUND
DOWNMIX OVER
MONO RANDOM
T-BASS
VCD
CD
kHz
MHz

WAVE FORM-1/2

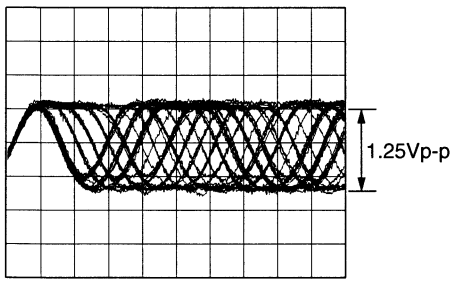
① TP319 (RFP), TP320 (RFN) (DVD)

VOLT/DIV: 500mV
TIME/DIV: 50nS



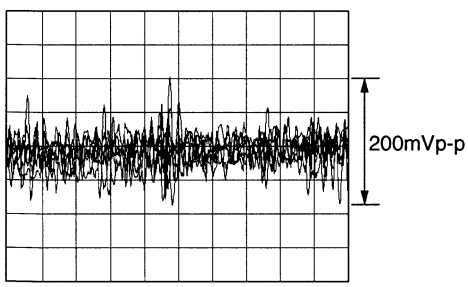
TP319 (RFP), TP320 (RFN) (CD)

VOLT/DIV: 500mV
TIME/DIV: 500nS



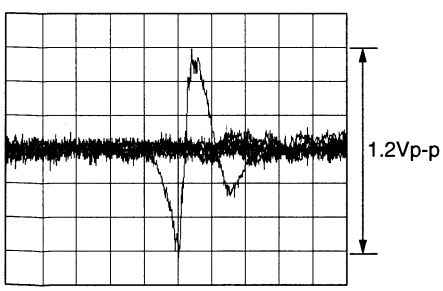
② TP302 (FE)

VOLT/DIV: 50mV
TIME/DIV: 50nS

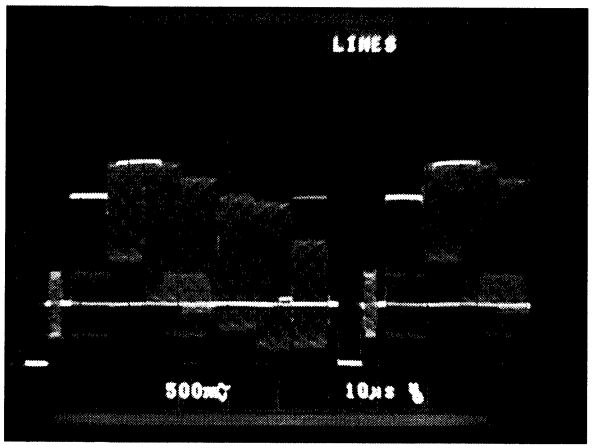


③ TP303 (TE)

VOLT/DIV: 200mV
TIME/DIV: 200μS

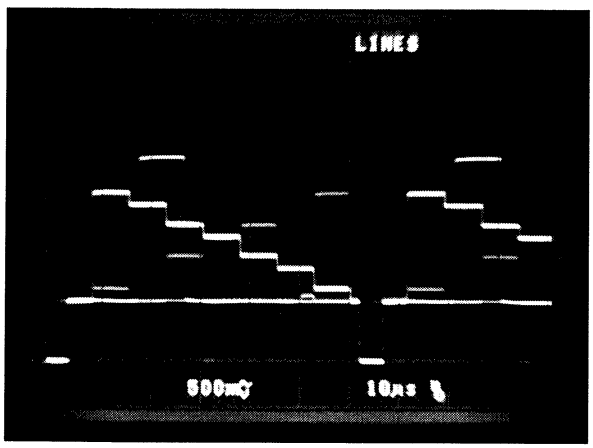


WAVE FORM-2/2



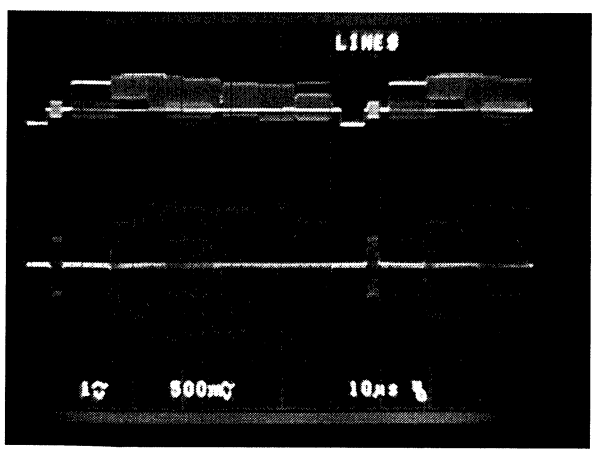
④ IC803 pin㉜ (COMPOSITE)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 500mV
TIME/DIV: 10μS



⑤ IC803 pin㉗ (LUMI)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 500mV
TIME/DIV: 10μS

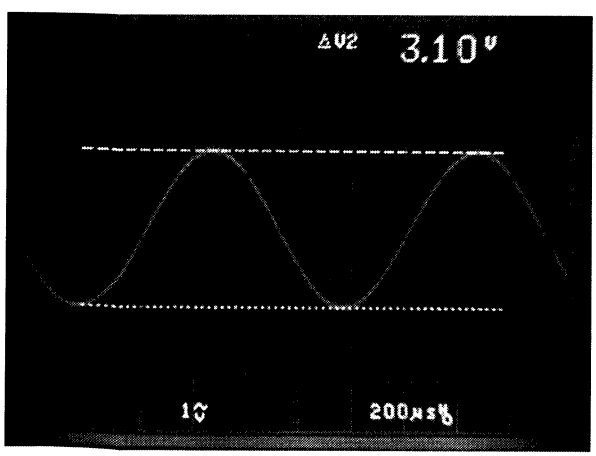


④ IC803 pin㉜ (COMPOSITE)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 1V
TIME/DIV: 10μS

⑥ IC803 pin㉖ (CHROMA)
PLAY: NTSC COLOR BAR
SOFT: A.BEX (PTD1-NOR)

VOLT/DIV: 500mV
TIME/DIV: 10μS



⑦ IC704 Pin ⑦ (VOUTL)
IC704 Pin ⑧ (VOUTR)
PLAY: NTSC COLOR BAR

VOLT/DIV: 1V
TIME/DIV: 200μS

DVD TEST MODE-1/3

The three types of the DVD test mode are prepared.
Select the desired test mode in accordance with the requirement.

1. Status/Media Display Mode

1-1. How to Start up the Status/Media Display Mode

While pressing the DVD/CD button, connect the AC plug to the power outlet.
All of the FL displays turn on and then the test mode starts.

1-2. How to Quit the Status/Media Display Mode

Disconnect the AC plug from the power outlet to exit the test mode.
Alternately, quit the test mode by the following operation.

- Press any of the FUNCTION buttons. (Buttons other than the DVD/CD button)
- Press the POWER button.

1-3. Function Descriptions

After the DVD test mode starts up, the FL display shows the message "S**M**" as described below.
"S**" indicates the status.

Status display	Description
S41	STOP status of the pickup at inner circumference.
S42	STOP status of the pickup at inner circumference with the resume data.
S43	PLAY status
S44	PAUSE status
S45	SKIP status
S46	Status of reading TOC
S47	The signal indicating completion of writing into EEPROM
S48	State that the status is not fixed yet
S49	The signal indicating disc end

"M**" indicates the types of the media.

Media display	Description
M00	Detection of media type is in progress.
M21	No disc is inserted.
M22	CD-DA
M23	VCD (Ver 1.0 or Ver 1.1)
M24	VCD (Ver 2.0)
M25	DVD

If any numbers other than the above described numbers is displayed, they are all inappropriate data.

Normal display

The normal display is shown while the DVD/CD button is pressed during startup of the Status/Media display mode.

2. Front End Test Mode

2-1. How to Start up the Front End Test Mode

· Starting up this mode from the Status/Media display mode

Press the "ENTER" button and the "PLAY" button at the same time for 3 seconds or more in the Status/Media display mode.

· Starting up from the normal mode

From the remote control, input the following commands in the order starting from "RETURN" → "ANGLE" → "RETURN" → "C" within 2 seconds while the disc is stopped.

After the FRONT END test mode has started up, the FL display is changed to "FE TEST".

2-2. How to Quit the Front End Test Mode

Disconnect the AC plug from the power outlet to exit the test mode.

Alternately, quit the test mode by the following operation.

· Press any of the FUNCTION buttons. (Buttons other than the DVD/CD button)

· Press the POWER button.

2-3. Function Descriptions

Operations of both of the main unit operation buttons and the remote control unit operation buttons are described below.

Status	Operation buttons of the main unit	Operation buttons of the remote control unit	Operations
STOP	FF	"1"	Sled advance in FWD
	RWD	"2"	Sled advance in RWD
	ECO	"3"	Spindle continuous kick (forward rotation)
	ENTER	"4"	Laser ON/OFF
	PLAY	"7"	PLAY (ALL SERVO ON)
PLAY	STOP	"6"	STOP (ALL SERVO OFF)

Each operation is described below.

2-3-1. Sled advance in FWD

The optical pickup moves toward the outer circumference when the "FF" buttons of the main unit or the "1" button of the remote control unit is pressed in the STOP status.

Because the optical pickup will not stop movement even when it reaches the outermost circumference, press the "STOP" of the main unit or the "6" button of the remote control unit b.

2-3-2. Sled advance in RWD

The optical pickup moves toward the inner circumference when the "RWD" button of the main unit or the "2" button of the remote control unit is pressed in the STOP status.

2-3-3. Spindle continuous kick (forward rotation)

The spindle rotates in the forward direction when the "ECO" button of the main unit or the "3" button of the remote control unit is pressed in the STOP status.

To stop the rotation, press "STOP" of the main unit or "6" of the remote control unit.

2-3-4. Laser ON/OFF

Laser of the pickup is turned on or off when the "ENTER" button of the main unit or the "4" button of the remote control unit is pressed in the STOP status.

The display changes as shown below by every pressing of the "ENTER" button of the main unit.

DVD laser ON → CD laser ON → Laser OFF → DVD laser ON → CD laser ON → Laser OFF ···

2-3-5. PLAY (ALL SERVO ON)

When the "PLAY" button of the main unit or the "7" button of the remote control unit is pressed in the STOP status, the disc detection and the disc identification are performed. Then the machine enters the Test Play mode.

Neither picture nor audio is output during Test Play mode.

To quit the Test Play mode, press "STOP" of the main unit or "6" of the remote control unit.

2-3-6. STOP (ALL SERVO OFF)

The machine returns to the STOP status when "STOP" of the main unit or "6" of the remote control unit is pressed.

3. Test Display Mode

3-1. How to Start up the Test Display Mode

From the remote control, input the following commands in the order starting from "RETURN" → "ZOOM" → "RETURN" → "C" within 2 seconds in the normal mode while the disc is stopped.
After the Test Display mode has started up, the FL displays the message "H***_*_*" for 4 seconds.

3-2. How to Quit the Test Display Mode

Disconnect the AC plug from the power outlet to exit the Test Display mode.
Alternately, quit the Test Display mode by the following operation.

- Press any of the FUNCTION buttons. (Buttons other than the DVD/CD button)
- Press the POWER button.

3-3. Function Descriptions

In the Test Display mode, NTSC/PAL identification and region can be confirmed from the FL display message "H***_*_*" that appears for 4 seconds.

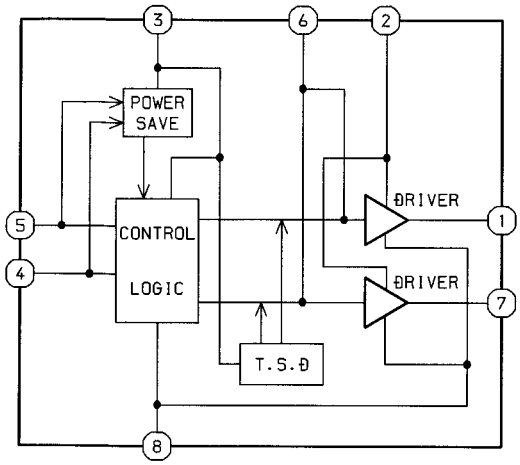
Display example

"H***_P_2"

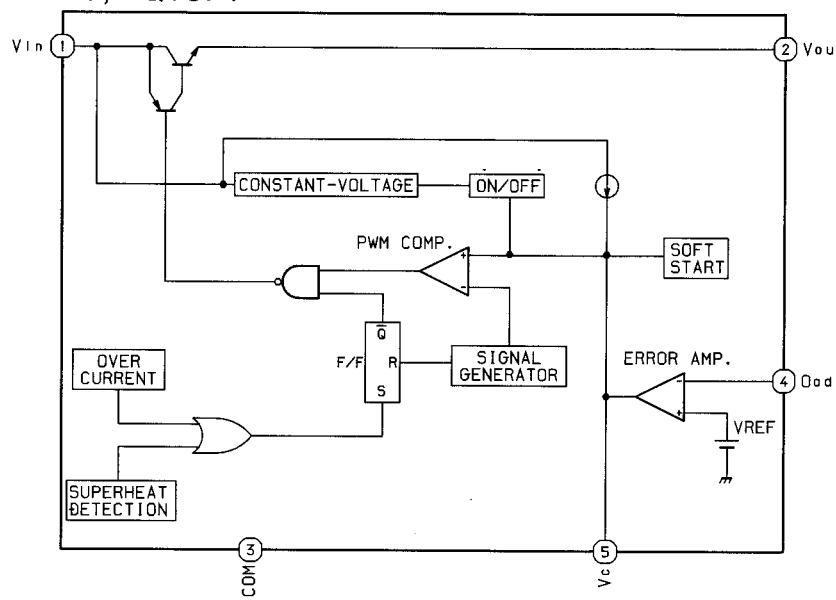
This message indicates that the region is 2 and the TV system is PAL.

IC BLOCK DIAGRAM-1/4

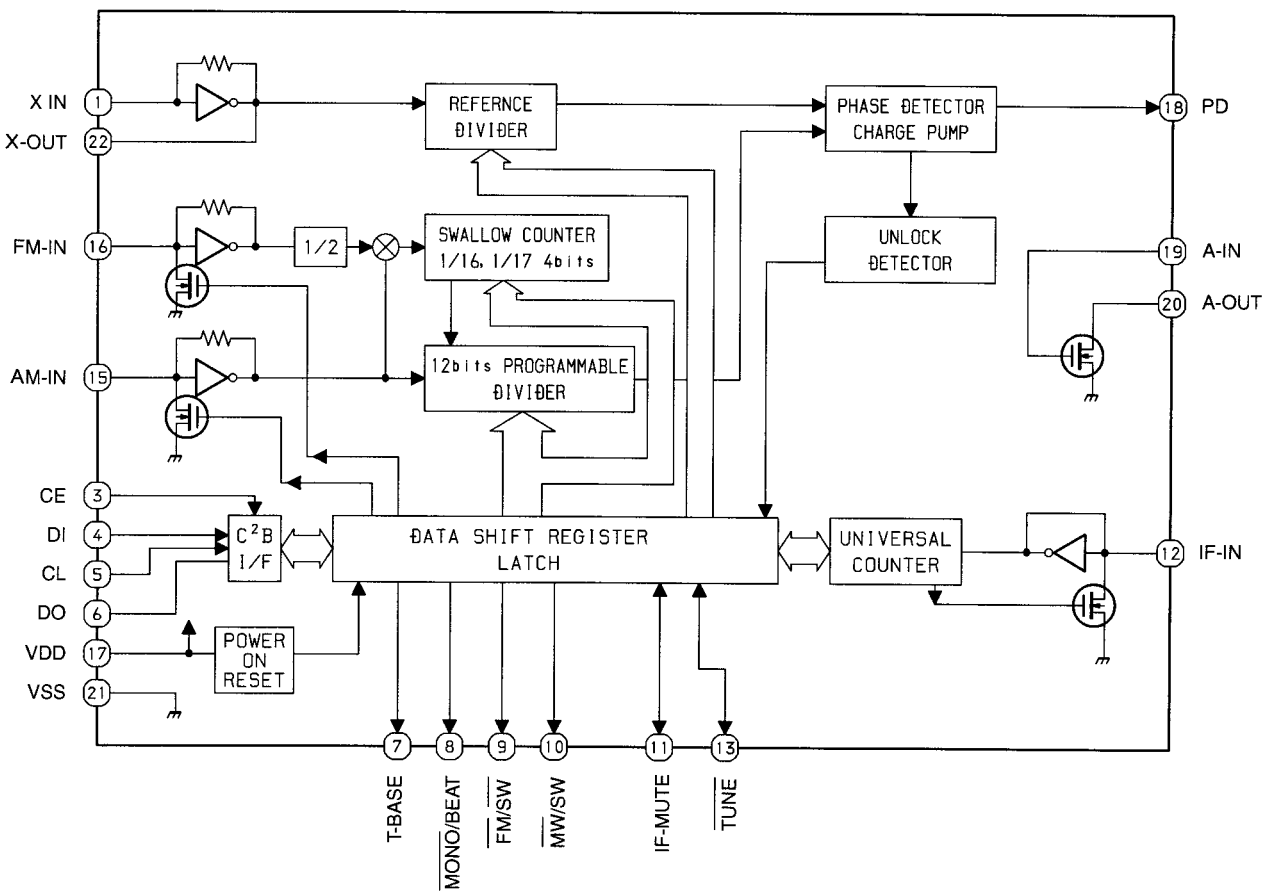
IC, BA6417F



IC, PQ1CF1

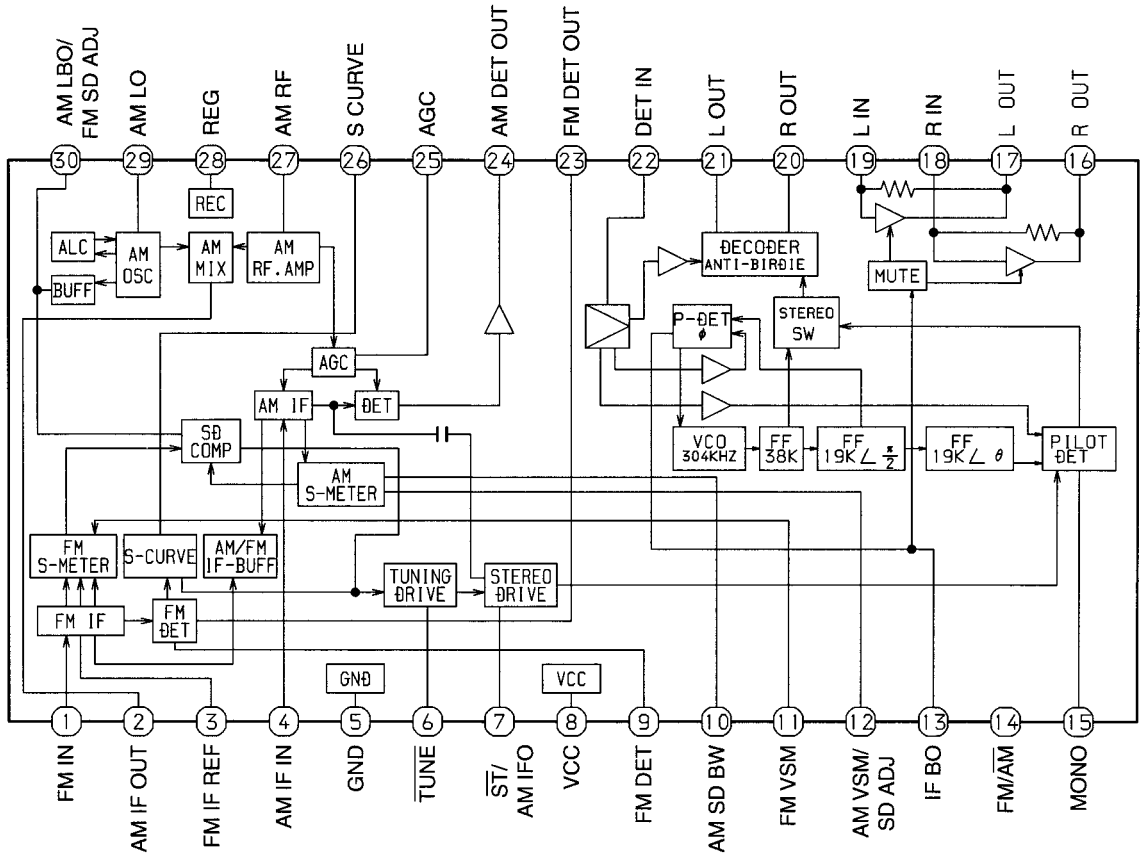


IC, LC72131D

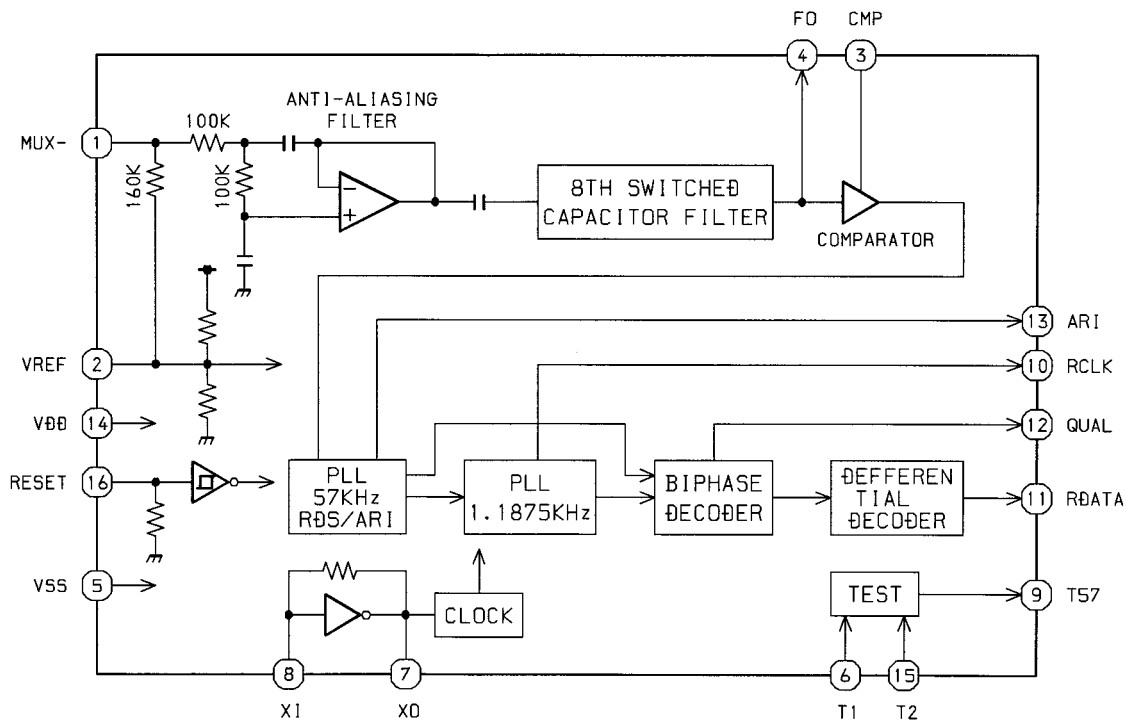


IC BLOCK DIAGRAM-2/4

IC, LA1837NL

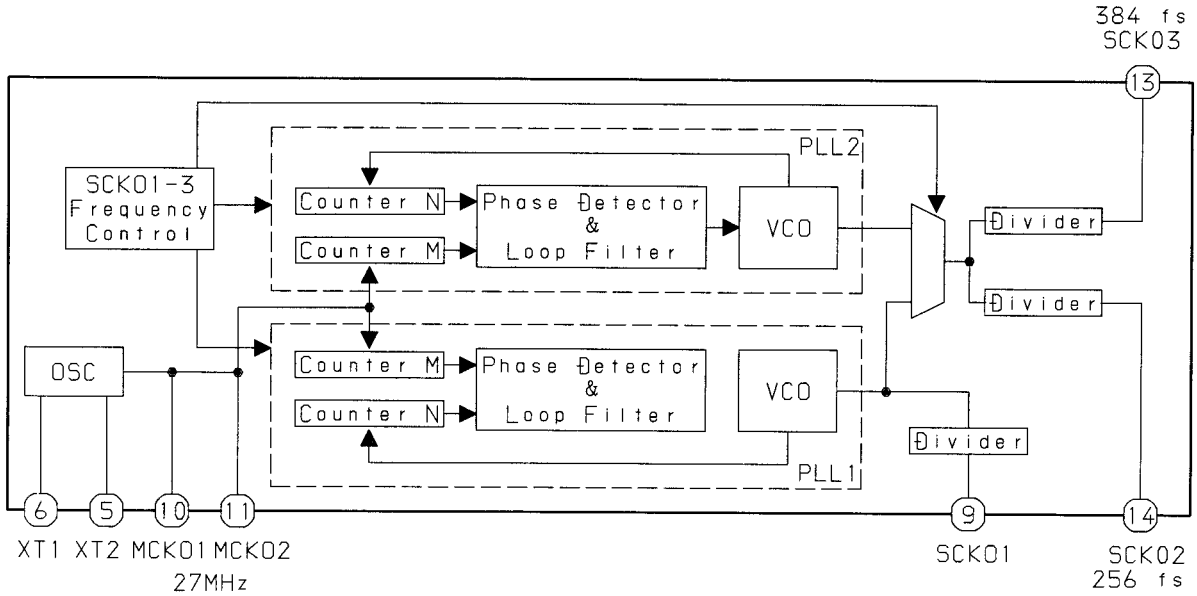


IC, BU1920FS

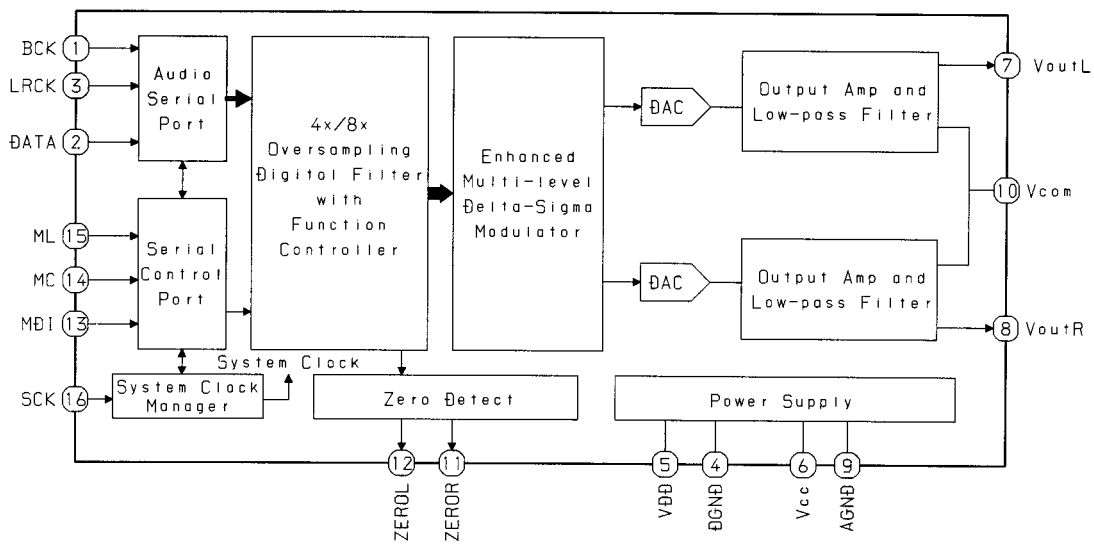


IC BLOCK DIAGRAM-3/4

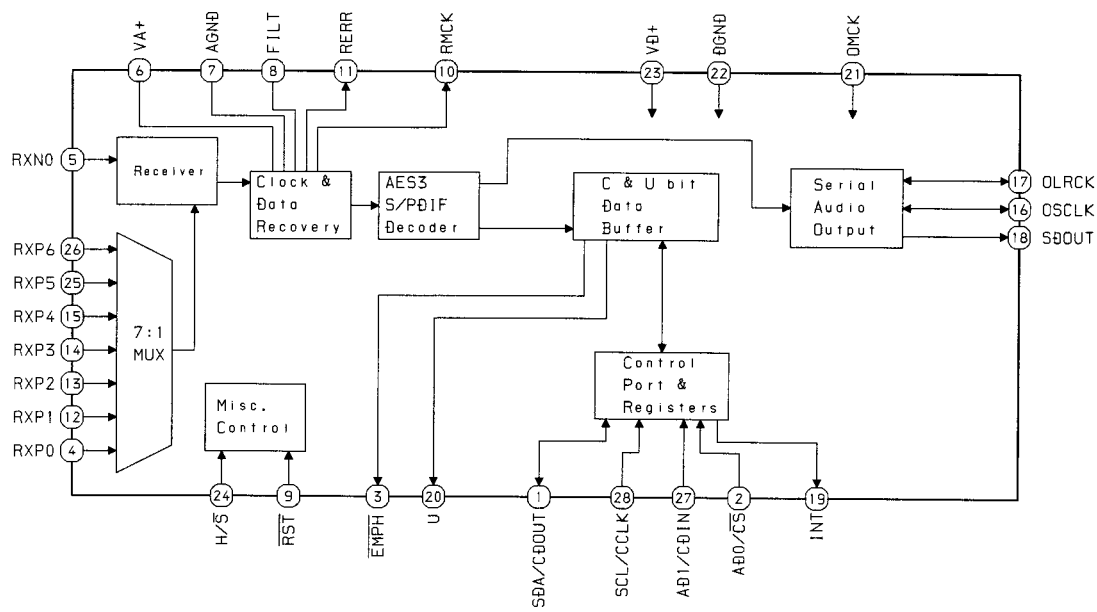
IC, PLL1701



IC, PCM1742 KE

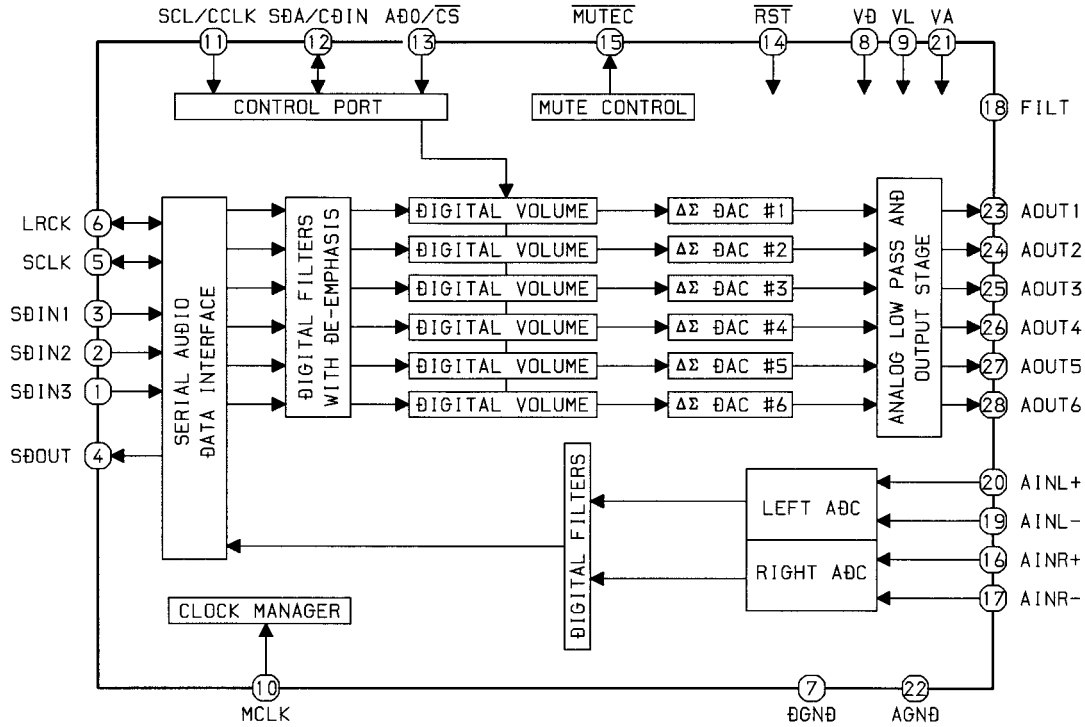


IC, CS8415A

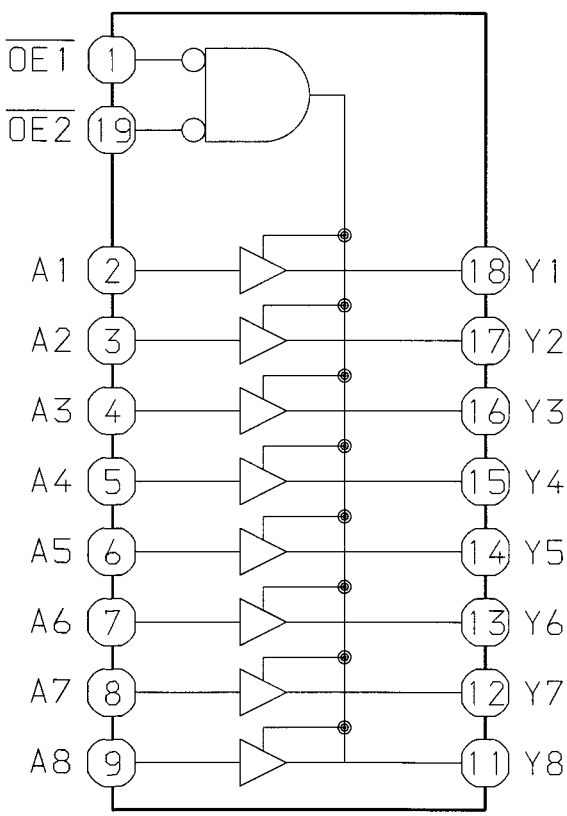


IC BLOCK DIAGRAM-4/4

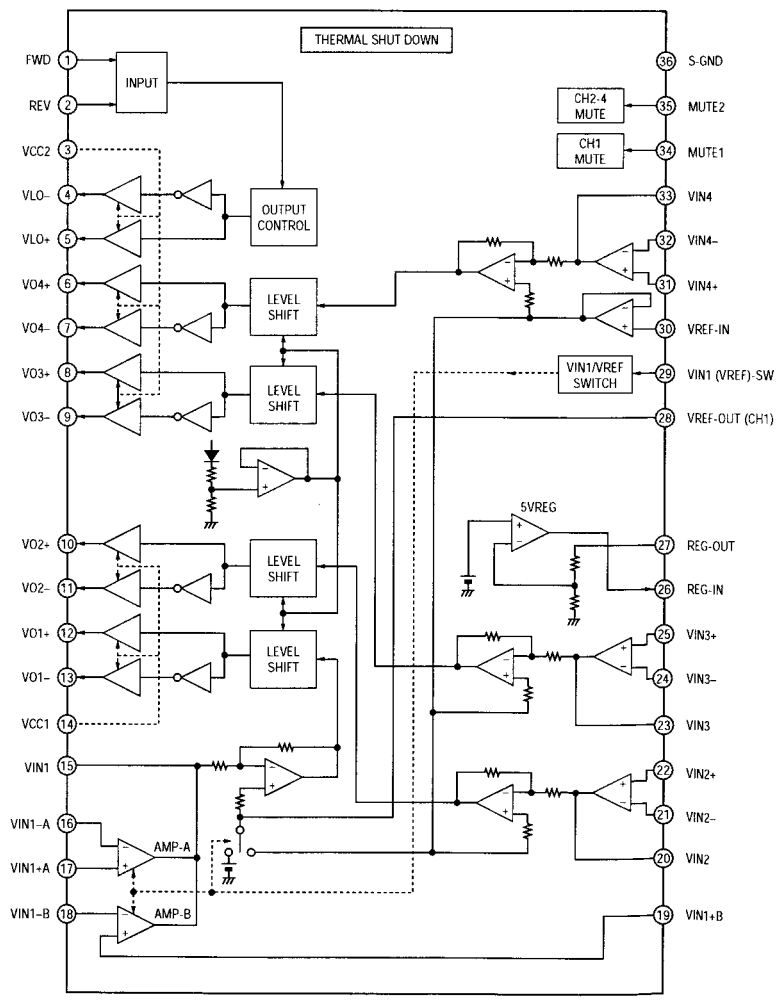
IC, CS4228A



IC, SN74LV541APW



IC, LA6556L



IC DESCRIPTION-1/10 (LC75824E)-1/1

Pin No.	Pin Name	I/O	Description
1	0-GRN LED	O	Segment outputs for displaying the display data transferred by serial data input.(Not connected)
2	0-RED LED	O	Segment outputs for displaying the display data transferred by serial data input.(Not connected)
3	0-BLU LED	O	Segment outputs for displaying the display data transferred by serial data input.(Not connected)
4-51	SEG48-SEG1	O	Segment outputs for displaying the display data transferred by serial data input.
52-55	COM1-COM4	O	Comnon driver outputs.
56	VDD	—	Power supply connection.
57	VDD1	I	Used for applying the LCD drive 2/3 bias voltage externally.
58	VDD2	I	Used for applying the LCD drive 1/3 bias voltage externally.
59	VSS	—	GND.
60	OSC	I/O	Oscillator connection.
61	INH	I	Display turning off inputpin. LNH=L(VSS)···Turned off. LNH=H(VDD)···Turned on.
62	CE	I	Serial data interface connections to the controller microprocessor. CE:Chip enable.
63	CL	I	Serial data interface connections to the controller microprocessor. CL:Sync clock.
64	DI	I	Serial data interface connections to the controller microprocessor. DI:Transfer data.

IC DESCRIPTION-2/10 (LC877256V-5V36)-1/2

Pin No.	Pin Name	I/O	Description
1	O-RIDOP	O	Output pin for Rid open.
2	O-PLLCE	O	Output pin for PLL Chip enable.
3	I/O-BUSY	I/O	BUSY signal input or output.
4	O-DATA	O	Control data output to the DSP etc.
5	O-MUTE	O	Muting control signal output to the LINE MUTE driver.
6	O-LCD DATA	O	Data output to the LCD driver.
7	O-LCD STB	O	Data latch signal output to the LCD driver.
8	O-LCD CLK	O	Clock signal output to the LCD driver.
9	O-POWER	O	Power on/off control signal output.
10	O-HMUTE	O	Headphone muting control signal output.
11	$\overline{\text{RESET}}$	I	Reset pin.
12	I-TU-SIG	I	Input pin for Tuner FM VSM.
13	NC	—	Not connected.
14	VSS1	—	Negative power supply pin.
15	CF1	I	Input pin for ceramic oscillator.
16	CF2	O	Output pin for ceramic oscillator.
17	VDD1	—	Positive power supply pin.
18	$\overline{\text{I-HOLD}}$	I	HOLD signal input.
19	$\overline{\text{I-KEY1}}$	I	Function key signal input from S141-149.
20	$\overline{\text{I-KEY2}}$	I	Function key signal input from S111-117.
21	$\overline{\text{I-HSW}}$	I	Headphone detect signal input from J701.
22	I-RID	I	Voltage detect signal input for VM.
23	O-NP1	O	NTSC/PAL selection control signal output.
24	O-NP2	O	NTSC/PAL selection control signal output.
25	$\overline{\text{I-SPHOLD}}$	I	Pull down.
26	I-SIGNAL	I	SPEANA signal input from IC601.
27	I-RDSCLK	I	RDS clock input from the tuner.
28	I-TM BASE	I	TM BASE signal input from the tuner.
29	$\overline{\text{I-RMC}}$	I	Data signal input from the remote control receiver.
30	NC	—	Not connected.
31-33	RE1-3	I	Terminal for a selector.
34	CLOSE-2	I	Terminal for a selector.
35	NP-A	I	Terminal for a selector.
36	NP-B	I	Terminal for a selector.
37	AUX-MUTE	I	Terminal for a selector.
38	V-SW	I	Terminal for a selector.
39	RDS	I	Terminal for a selector.
40	LW	I	Terminal for a selector.
41	$\overline{\text{AM10K}}$	I	Terminal for a selector.
42	FW-WIDE	I	Terminal for a selector.
43	$\overline{\text{DEMO}}$	I	Terminal for a selector.

Pin No.	Pin Name	I/O	Description
44	$\overline{\text{ECO}}$	I	Terminal for a selector.
45-50	NC	I	Terminal for a selector.
51-53	NC	—	Not connected.
54	VDD2	—	Positive power supply pin.
55	VSS2	—	Negative power supply pin.
56-63	NC	—	Not connected.
64	DVD-ON	O	Power control signal output for the DVD unit.
65	FAN-ON	O	Fan driver control signal output.
66	I-HEAT	I	Pull up.
67-71	NC	—	Not connected.
72	O-LED GR	O	Green LED control signal output.
73-75	NC	—	Not connected.
76	O-LED BL	O	Blue LED control signal output.
77	O-LED RED	O	Red LED control signal output.
78	O-RID CLS	O	Close signal output to the motor driver.
79	O-RID OPN	O	Open signal output to the motor driver.
80-82	NC	—	Not connected.
83	I-RID CLS	I	Close switch detect signal input from S152.
84	I-RID OPN	I	Open switch detect signal input from S152.
85	I-JOG B	I	Jog dial signal input from the rotary encoder.
86	I-JOG A	I	Jog dial signal input from the rotary encoder.
87	O-DSPCE	O	Data latch signal output to the DSP.
88	$\overline{\text{O-STBY}}$	O	Control signal output for the STAND BY LED and the LCD driver.
89	VSS3	—	Negative power supply pin.
90	VDD3	—	Positive power supply pin.
91	O-C-SIFT	O	LC oscillator frequency control signal output.
92	$\overline{\text{I-STEREO}}$	I	STEREO detect signal input from the tuner.
93	$\overline{\text{O-SP PON}}$	O	Speaker relay control signal output.
94	O-DVD-CLK	O	Clock signal output to the DVD unit.
95	I-RDS-DATA	I	RDS data input from the tuner.
96	I-DVD-DATA	I	Data input from the DVD unit.
97	I-TU-IFC	I	Tuned signal detect input from the tuner.
98	I-SW	I	Push switch signal input from S110.
99	O-DVD-DATA	O	Data output to the DVD unit.
100	O-CLK	O	Clock output to the DSP etc.

IC DESCRIPTION-3/10 (M62466FP)-1/3

Pin No.	Pin Name	I/O	Description
1	TA-L	I	TA left signal input. (Pull down)
2	TA-R	I	TA right signal input. (Pull down)
3	TU-L	I	Tuner left signal input.
4	TU-R	I	Tuner right signal input.
5	AUX-L	I	AUX left signal input.
6	AUX-R	I	AUX right signal input.
7	MD-L	I	MD left signal input. (Pull down)
8	MD-R	I	MD right signal input. (Pull down)
9	CD-L	I	2-CH left signal input.
10	CD-R	I	2-CH right signal input.
11	INGND	—	Ground
12	VF1	—	Terminal for a capacitor. (Not connected)
13	VF2	—	Terminal for a capacitor. (Not connected)
14	KCONOUT	O	K-CON signal output. (Not connected)
15	KCONIN	I	K-CON signal input. (Not connected)
16	MIC-IN	I	MIC signal input. (Pull down)
17	SPEANA-OUT	O	Audio level signal output for the SPE ANA circuit.
18	RYHTHM-IN	I	RYHTHM signal input. (Not connected)
19	BBELCL	—	Terminal for a capacitor.
20	BBELCL	—	Terminal for a capacitor.
21	BBEHCL	—	Terminal for a capacitor.
22	BBEHCR	—	Terminal for a capacitor.
23	LINEOUTL	O	LINEOUT left signal output.
24	LINEOUTR	O	LINEOUT right signal output.
25	RECOUTL	I/O	REC OUT left signal output or MONI IN left signal input.
26	RECOUTR	I/O	REC OUT right signal output or MONI IN right signal input.
27	PROINL	I	Audio signal input to the DOLBY Pro Logic decoder.
28	PROINR	I	Audio signal input to the DOLBY Pro Logic decoder.
29	ABL	—	Terminal for a capacitor of the band pass filter.
30	ABR	—	Terminal for a capacitor of the band pass filter.
31	LBPF1	—	Terminal for a capacitor of the band pass filter.
32	LBPF2	—	Terminal for a capacitor of the band pass filter.
33	RBPF1	—	Terminal for a capacitor of the band pass filter.
34	RBPF2	—	Terminal for a capacitor of the band pass filter.
35	RLC6	—	Terminal for a capacitor of the full wave rectifier.
36	RLC8	—	Terminal for a capacitor of the full wave rectifier.
37	RLC3	—	Terminal for a capacitor of the full wave rectifier.
38	RLC7	—	Terminal for a capacitor of the full wave rectifier.
39	RLC4	—	Terminal for a capacitor of the LOG difference amplifier.
40	RLC1	—	Terminal for a capacitor of the LOG difference amplifier.
41	RLC2	—	Terminal for a capacitor of the LOG difference amplifier.

Pin No.	Pin Name	I/O	Description
42	RLC5	—	Terminal for a capacitor of the LOG difference amplifier.
43	PSC4	—	Terminal for a capacitor.
44	PSC1	—	Terminal for a capacitor.
45	PSC5	—	Terminal for a capacitor.
46	PSC2	—	Terminal for a capacitor.
47	PSC6	—	Terminal for a capacitor.
48	PSC3	—	Terminal for a capacitor.
49	DELAYIN	O	Connection to the input of DSP for delay circuit.
50	DELAYOUT	I	Connection to the output of DSP for delay circuit.
51	DBC1	—	Terminal for a capacitor of the modified NR decoder.
52	DBC2	—	Terminal for a capacitor of the modified NR decoder.
53	DBC3	—	Terminal for a capacitor of the modified NR decoder.
54	CMC	—	Terminal for a capacitor of the center mode control.
55	IREF	—	Terminal for a resistor of the IREF circuit.
56	COUT	O	C signal output from the center mode control.
57	CIN	I	C signal input.
58	SOUT	O	S signal output from the modified NR decoder.
59	SIN	I	S signal input.
60	ROUT	O	R signal output from the center mode control.
61	RIN	I	R signal input.
62	LOUT	O	L signal output from the center mode control.
63	LIN	I	L signal input.
64	DGND	—	Ground.
65	S-MUTE	O	S_MUTE signal output for the muting circuit.
66	NC	—	Not connected.
67	NC	—	Not connected.
68	TU-ON	O	Tuner operation control signal output.
69	DVD-ON	O	Power control signal output for DVD circuit.
70	L/RGN	—	Ground.
71	NC	—	Not connected.
72	NC	—	Not connected.
73	VEE	—	Negative power supply.
74	MCUIN	I	Data input from the microprocessor (controller).
75	VDD	—	Power supply.
76	SWOUT	O	SW signal output.
77	RSOUT	O	RS signal output.
78	LSOUT	O	LS signal output.
79	COUT	O	C signal output.
80	ROUT	O	R signal output.
81	LOUT	O	L signal output.
82	ALC	—	Pull down.

Pin No.	Pin Name	I/O	Description
83	MUTEGND	—	Ground.
84	TBASSR2	—	Terminal for the T-Bass soft SW.(Not connected)
85	TBASSR1	—	Terminal for the T-Bass soft SW.(Not connected)
86	TBASSL2	—	Terminal for the T-Bass soft SW.(Not connected)
87	TBASSL1	—	Terminal for the T-Bass soft SW.(Not connected)
88	GAINR	—	Terminal for a capacitor.
89	GAINL	—	Terminal for a capacitor.
90	TONER2	I	Input terminal for the tone control circuit.
91	TONER1	O	Output terminal for the tone control circuit.
92	TONEL2	I	Input terminal for the tone control circuit.
93	TONEL1	O	Output terminal for the tone control circuit.
94	VOLGND	—	Ground.
95	DSWIN	I	5.1CH-SW signal input.
96	DSRIN	I	5.1CH-RS signal input.
97	DSLIN	I	5.1CH-LS signal input.
98	DCIN	I	5.1CH-C signal input.
99	DRIN	I	5.1CH-R signal input.
100	DLIN	I	5.1CH-L signal input.

IC DESCRIPTION-4/10 (LC87F72C8A)-1/2

Pin No.	Pin Name	I/O	Description
1	SUBRXD	I	DATA input terminal for LOADER serial communication control.
2	SUBSCK	I	Clock input terminal for LOADER serial communication control.
3	LEDD1	O	Detection of LEDD1. (Not Connected)
4	LEDCSB	O	Detection of LEDCSB. (Not Connected)
5	LEDCLK	O	Detection of LEDCLK. (Not Connected)
6	RDY_HIF	O	LOADER READY signal output terminal.
7	PWM	O	Detection of PWM. (Not Connected)
8	RESET	I	Reset signal input terminal.
9	XT1/AN10	I	Input for 32.768kHz crystal oscillation. AD input port: AN10. (Connected to power supply)
10	XT2/AN11	I/O	Out put for crystal oscillation. AD input port: AN11. (Not Connected)
11	GND	—	GND.
12	CLOCK	I	In put for 10MHz crystal oscillation.
13	CLOCK	O	Out put for 10MHz crystal oscillation.
14	5V	—	Power supply 5V.
15	TESTKEY	O	TESTKEY output pin. (Not Connected)
16	BUSYB	I	DSP command dispose busy signal input pin.
17	FBUSYB	I	DSP command receiver busy signal input pin.
18	HEXKEY	O	Detection of HEXKEY. (Not Connected)
19	RID OPEN	I	Detection of RID OPEN.
20	OPEN_SW	I	Detection of OPEN SW. (Pull up)
21	CLOSE_SW	I	Detection of CLOSE SW pin. (Pull down)
22	LSW	I	LIMIT SW input pin.
23	HIRQB	I	Interrupt signal input pin.
24	INT_SUBSCK	I	Clock input terminal for LOADER serial communication control.
25	FGO	I	SENSER input.
26	WRQ	I	Subcode Q read ready monitor input.
27	S0/PA0	O	LCD display segment output. (Not Connected)
28	FEL_CSBI	O	Chip select signal output pin. (Not Connected)
29	FEL_CSBO	O	Chip select signal output pin. (Not Connected)
30	ZWR	O	Write signal output pin.
31	ZRD	O	Read signal output pin.
32	S5/PA5	O	FECONT control output pin.
33	WAITB	I	Wait signal input pin.
34	S7/PA7	I/O	Detection of S7/PA7. (Not Connected)
35-42	DB0-7	I/O	Data 0-7.
43-50	AB0-7	O	Address 0-7.
51	5V	—	Power supply 5V.
52	GND	—	GND.
53	S24/PD0	O	Detection of S24/PD0.
54	DEFINHB	O	DEFINHB control output.
55	TOPEN	I	RF general-purpose port output pin 0.

Pin No.	Pin Name	I/O	Description
56	CURRENT	I	RF general-purpose port output pin 2.
57	RW_DISC	O	RW DISC control output pin.
58	DUAL	O	DUAL control output pin.
59	DECRESB	O	Decoder reset output pin.
60	EVARESOB	O	System reset output pin.
61-65	AB8-12	O	Address 8-12.
66-68	S37-39/PE5-7	O	Detection of S37-39/PE5-7. (Not Connected)
69-72	CONT1-4	O	CONT1-4 output pin.
73	S44/PF4	O	Detection of S44/PF4. (Not Connected)
74, 75	OUT 1, 2	O	Detection of OUT 1, 2. (Not Connected)
76	HD_INT	O	Interropt signal for AV DECODER IC/TEST PIN. (Not Connected)
77-79	V3-1/PL6-4	O	Detection of V3-1/PL6-4. (Not Connected)
80-83	COM0-3/PL0-3	O	Detection of COM0-3/PL0-3. (Not Connected)
84	3TRY_FWD	O	TRY control output. (Not Connected)
85	TRY_REV	O	TRY control output. (Not Connected)
86	GND	—	GND.
87	5V	—	Power supply pin (+).
88	DMUTE	O	MUTE output pin.
89	F_DIO	O	F_DIO output pin.
90	F_CLK	O	F_CLK output pin.
91	F_DIOI	O	F_DIOI output pin.
92	DPD_TEB	O	DPD_TEB output.
93	RFSCT	O	RFSCT control output.
94	XQBH	O	XQBH out put. (Not Connected)
95	EQSCT	O	EQSCT output.
96	CD3T	O	CD3T control output.
97	PP_TEB	O	PP TEB output.
98, 99	LDON1, 2	O	LDON 1, 2 output.
100	SUBTXD	O	DATA output terminal for LOADER serial communication control.

IC DESCRIPTION-5/10 (LC78661W)-1/4

Pin No.	Pin Name	I/O	Description
1	RFPI	I	RF input port pin. (Pull down)
2	TEST0	I/O	Tracking margin signal I/O pin.
3	DVDD2	—	A/D D/A internai logic power supply. [Digital 5V]
4	DVSS	—	Digital GND.
5	AD5/BH	I	Servo A/D input pin. (AD5: Assistant input 5)
6	AD4/PH/TE	I	Servo A/D input pin. (AD4: Assistant input 4)
7	AD3	I	Servo A/D input pin. (AD3: Assistant input 3)
8	AD2	I	Servo A/D input pin. (AD2: Assistant input 2)
9	AD1/JV	I	Servo A/D input pin. (AD1: Assistant input 1)
10	AD0/RREC	I	Servo A/D input pin. (AD0: Assistant input 0)
11	RF_PH	I	Servo A/D input pin. (RF_PH: RF peak hold signal)
12	RF_BH	I	Servo A/D input pin. (RF_BH: RF bottom hold signal)
13	TE	I	Servo A/D input pin. (TE: Tracking error signal)
14	FE	I	Servo A/D input pin. (FE: Focus error signal)
15	TEST0	I	Test input pin 0. (L Fixed)
16	EFMINP	I	EFM/EFM+input pin.
17	TEST1	I	Test input pin 1. (L Fixed)
18	EFMINN	I	EFM-input pin.
19	SLCLPF0	—	SLC LPF pin.
20	SLCLPF1	—	SLC LPF pin.
21	SLC01	—	SLC control pin.
22	SLC02	—	SLC control pin.
23	AVDD1	—	A/D D/A SLC power supply. [Analog 5V]
24	ADSS	—	Analog GND.
25	VREF	O	Servo D/A standerd voltage. [2.5V]
26	SLCBIAS	O	Servo D/A output pin. (SLCBIAS: SLC standerd voltage signal)
27	TESBIAS	O	Servo D/A output pin. (TESBIAS: TES standerd voltage signal)
28	HFLBIAS	O	Servo D/A output pin. (HFLBIAS: HFL standerd voltage signal)
29	OFSET	O	Servo D/A output pin. (OFSET: Assistant signal)
30	BCA	O	Servo D/A output pin. (BCA: Assistant signal)
31	BOOT3T	O	Servo D/A output pin. (BOOT3T: Assistant signal)
32	RFVCA	O	Servo D/A output pin. (RFVCA: Assistant signal)
33	TBAL	O	Servo D/A output pin. (TBAL: Tracking balance control signal)
34	FBAL	O	Servo D/A output pin. (FBAL: Focus balance control signal)
35	SGC	O	Servo D/A output pin. (SGC: Assistant signal)
36	SLSO	O	Servo D/A output pin. (SLSO: Thread control signal)
37	SPDO	O	Servo D/A output pin. (SPDO: Spindle control signal)
38	TDO	O	Servo D/A output pin. (TDO: Tracking control signal)
39	FDO	O	Servo D/A output pin. (FDO: Focus control signal)
40	DVSS	—	Digital GND.
41	DVDD0	—	Internal logic power supply. [Digital 3.3V]

Pin No.	Pin Name	I/O	Description
42	FG	I	FG counter input pin.
43	EVENT	I	EVENT counter input pin. (Pull down)
44	HFLIO	I/O	Mirror detest signal I/O pins. (Not Connected)
45-48	PP0-3	I/O	General-purpose port 0-3. (Pull down)
49	WRQ	O	Subcode Q read ready monitor pin.
50	HFBUSYB	O	DSP command dispose busy signal output pin.
51	HBUSYB	O	DSP command receiver busy signal output pin.
52	DVDD3	—	I/O power supply. [Digital 5V]
53	DVSS	—	Digital GND.
54	HWAITB	O	Wait signal output pin.
55	HIRQB	O	Interrupt signal output pin.
56	DVDRESB	I	Decoder reset input pin.
57	RESB	I	System reset input pin.
58	HRDB	I	Read signal input pin.
59	HWRB	I	Write signal input pin.
60	HCSB	I	Chip select signal input pin. (Not Connected)
61-68	HDAT0-7	I/O	Data0-7.
69-81	HADR0-12	I	Address0-12.
82	DVDD3	—	I/O power supply. [Digital 5V]
83	DVSS	—	Digital GND.
84	PW/FSEQ	O	Subcode [P, Q, R, S, T, U, V and W] data output pin. (Not Connected)
85	SBCK	I	Subcode data readout shift clock input pin. (Connected to GND)
86	SBSY	O	Subcode block synchronization signal output pin. (No connected)
87	SFSY	O	Subcode frame synchronization signal output pin. (Not Connected)
88	FSX	O	CD1 frame synchronization signal. (Not Connected)
89	EFLG	O	Error correction C1, C2 correction conditions monitor pins. (Not Connected)
90, 91	PP4, 5	I/O	General-purpose port4, 5. (Pull down)
92	X16MOUT	O	Internal 16MHz output pin. (No connected)
93	X16MIN	I	External 16MHz input pin.
94	TEST2	I	Test input pin2. (L Fixed)
95	DVDCKOUT	O	Internal DVD clock output pin.
96	DVDCKIN	I	External DVD clock input pin. (L Fixed)
97	TEST3	I	Test input pin3. (L Fixed)
98	DVDD0	—	Internal logic power supply. [Digital 3.3V]
99	DVSS	—	Digital GND.
100	VPDO	—	SYSTEM PLL filter connection pin.
101	VRPFR	—	SYSTEM PLL VCO oscillator range adjustment pin.
102	VCOC	—	SYSTEM PLL filter connection pin.
103	AVSS	—	Analog GND.
104	AVDD3	—	SYSTEM VCO power supply. [Analog 3.3V]
105	DVSS	—	Digital GND.

Pin No.	Pin Name	I/O	Description
106	XIN	I	Oscillator circuit input pin. (16.9344MHz)
107	XOUT	O	Oscillator circuit outpit pin. (16.9344MHz)
108	DVDD6	—	Oscillator circuit power supply. [Digital 3.3V]
109, 110	PP6, 7	I/O	General-purpose port6, 7. (Pull down)
111	AVREQIO	I/O	AV data demand flag I/O pins.
112	AVACKOI	I/O	AV data read strobe output pin.
113	AVDACK	O	AV data read (Clock/Enable) output pins.
114	AVSCTB	O	AV output sector synchronization output pin.
115	AVERRB	O	AV data reliable flag output pin.
116	DVSS	—	Digital GND.
117	DVDD4	—	I/O power supply. [Digital 3.3V]
118-125	AVD0-7	O	AV data0-7.
126	C2F	O	C2 flag output pin.
127	ROMXA	O	CD data output pin.
128	ROMCK	O	CD data output shift lock output pin.
129	LRSY	O	CD data output L/R clock output pin.
130	EMPH	O	Deemphasis monitor pin.
131	DOUT	O	Audio EIAJ data output pin.
132	DVDD4	—	I/O power supply. [Digital 3.3V]
133	DVSS	—	Digital GND.
134	EFMOUT	O	EFM 2 value signal output pin. (Not Connected)
135	LEFM	O	Output pin for the signal picked out from EFM binary signal with PCK. (Not Connected)
136	PCK	O	EFM playback shift clock output pin. (Not Connected)
137	DVDD4	—	Inner logic power supply. [Digital 3.3V]
138	DVSS	—	Digital GND.
139	VCOCTL	—	VCO filter connection pin.
140	PPDO	—	Phase comparison filter connection pin.
141	FPDO	—	Frequency comparison filter connection pin.
142-144	LF1-3	—	Filter connection pin1-3.
145	PCN	—	Voltage monitor pin. (Phase comparison charge pomp PCH control voltage)
146	PISET	—	Current setting pin for the constant-current phase comparison charge pump.
147	FISET	—	Current setting pin for the constant-current frequency comparison charg pump.
148	CDFR	—	EFM playback VCO oscillator range setting pin. [For CD] (Pull down)
149	DVDFR	—	EFM playback VCO oscillator range setting pin. [For DVD] (Pull down)
150	AVDD2	—	EFM PLL JV power supply. [Analog 5V]
151	AVSS2	—	Analog GND.
152, 153	JVCPI, JVCPC	—	JV control pin.
154	JVAO	O	EFM playback PLL clock jitter output pin.
155	JVAIN	—	JV control pin. (Pull down)
156	JVRVO	—	JV control pin. (No connected)
157	AVDD4	—	SYSTEM PLL power supply. [Analog 3.3V]

Pin No.	Pin Name	I/O	Description
158	AVSS	—	Analog GND.
159-166	MD15-8	I/O	DRAM data15-8.
167	DVDD5	—	I/O power supply. [Digital 5V]
168	DVSS	—	Digital GND.
169-176	MD7-0	I/O	DRAM data7-0.
177-184	MA0-7	O	DRAM address0-7.
185	DVDD5	—	I/O power supply. [Digital 5V]
186	DVSS	—	Digital GND.
187	MA8	O	DRAM address8.
188-191	MA9-12	O	DRAM address9-12. (No connected)
192	MRAS0B	O	RAS output pin0.
193	MRAS1B	O	RAS output pin1. (No connected)
194	MCASUB	O	CAS output pin. (Upper Byte)
195	MCASLB	O	CAS output pin. (Lower Byte)
196	MOEB	O	OE output pin.
197	MWEB	O	WE output pin.
198	DVSS	—	Digital GND.
199	DVDD0	—	Inner logic power supply. [Digital 3.3V]
200-204	RFP0-4	O	RF general-purpose port output pin0-4.
205	DBFECTO	O	Defect signal output pin.
206	DEFECTTI	I	Defect signal input pin.
207	DVSS	—	Digital GND.
208	DVDD1	—	I/O power supply. [Digital 5V]

IC DESCRIPTION-6/10(LA9702W)-1/2

Pin No.	Pin Name	I/O	Description
1	RFM	I	RF signal - input. (Pull up)
2	RFP	I	RF signal + input.
3	PD1	I	Pickup signal input.
4	PD2	I	Pickup signal input.
5	PD3	I	Pickup signal input.
6	PD4	I	Pickup signal input.
7	PD5	I	Pickup signal input.
8	PD6	I	Pickup signal input.
9	PD7	I	Pickup signal input.
10	PD8	I	Pickup signal input.
11	PD9	I	Pickup signal input.
12	VCC	—	Power supply. (Servo signal system)
13	LDD1	O	APC1 output.
14	LDS1	I	APC1 monitor voltage input.
15	LDD2	O	APC2 output.
16	LDS2	I	APC2 monitor voltage input.
17	GND	—	Ground. (Servo signal system)
18	SGC	I	Servo gain control terminal. (RREC, FE, TE)
19	FBAL	I	Focus balance adjustment terminal.
20	TEBL	I	Tracking balance adjustment terminal.
21	VGA	I	RF gain adjustment terminal.
22	BST	I	Equalizer boost adjustment terminal.
23	FOST	I	Focus offset adjustment terminal.
24	TOST	I	Tracking offset adjustment terminal.
25	BCATH	I	BCA threshold adjustment terminal.
26	REFI	I	Reference voltage setting terminal.
27	2.5V OUT	O	Reference voltage output for servo signal.
28	RRBC	O	Reflection output.
29	FE	O	Focus error output.
30	TE	O	Tracking error output.
31	THC	—	External capacitor for setting TE hold time constant is connected to this terminal.
32	WO	O	Warble output terminal.
33	ISET	—	External resistor for setting BPF center frequency is connected to this terminal. (Pull down)
34	WOI	I	Push-pull signal input.
35	WOO	O	Push-pull signal output.
36	TEO	—	TE gain setting terminal for 3 beam.
37	TEN	—	TE gain setting terminal for 3 beam.
38	CP	—	External resistor and capacitor for setting charge pump gain, are connected to this terminal.
39	BHI	—	External resistor for setting bottom hold detection constant, is connected to this terminal. (Pull down)
40	RFON	O	RF - output.

Pin No.	Pin Name	I/O	Description
41	RFOP	O	RF + output.
42	BH	O	RF bottom detection output.
43	PHI	—	External resistor for setting peak hold detection constant, is connected to this terminal. (Pull down).
44	PH	O	RF peak detection output.
45	BCA	O	BCA output.
46	DEF	O	Defect output. (H: Defect detection)
47	DEFC	—	External resistor for defect detection is connected to this terminal.
48	TC	—	External resistor for setting defect detection constant is connected to this terminal.
49	GND	—	Ground. (DPD system)
50	LPC	—	External capacitor for RF DC servo is connected to this terminal.
51	CPOF	I	Charge pump OFF terminal. (H: OFF)
52	EQO2	—	RF equalizer setting terminal.
53	TH	I	Tracking hold. (H: Hold)
54	EQL2	I	RF equalizer setting terminal.
55	VCC	—	Power supply. (DPD system)
56	EQO4	O	RF equalizer setting terminal.
57	XHTR	I	Tracking bottom detection band switch. (L: High band)
58	BQL4	I	RF equalizer setting terminal.
59	XQBH	I	Bottom detection constant switch. (L: High speed)
60	EQO3	O	RF equalizer setting terminal.
61	EQSCT	I	Equalizer switcher. (H: 77-pin selection, L: 52-pin selection)
62	EQI3	I	RF equalizer setting terminal.
63	DPD/TEB	I	DPD 3-beam tracking switcher. (H: DPD)
64	RFO2	O	RF output.
65	RFO1	O	RF output.
66	VCC	—	Power supply. (RF system)
67	EQI1	I	RF equalizer setting terminal.
68	TE/PP	I	3-beam push-pull tracking switcher. (L: 3-beam)
69	EQO1	O	RF equalizer setting terminal.
70	LDON2	I	APC2 laser ON terminal. (H: ON)
71	EQI2	I	RF equalizer setting terminal.
72	LDON1	I	APC1 laser ON terminal. (H: ON)
73	EQO2	O	RF equalizer setting terminal.
74	GND	—	Ground. (RF system)
75	EQL1	I	RF equalizer setting terminal.
76	RFSCT	I	RF input switcher. (H: RF different input, PP error)
77	EQO1	O	RF equalizer setting terminal.
78	CAO	O	Customer amplifier output.
79	PREF	—	Reference voltage output. (for pick)
80	OAN	I	Customer amplifier input.

IC DESCRIPTION-7/10 (HD6412320VF25)-1/3

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{\_CS1ROM}}$	O	Not used.
2	$\overline{\text{CS0ROM}}$	O	Chip select output terminal for ROM.
3, 4	VSS	—	GND.
5	VCC	—	Power input terminal. EVER +3.3 V.
6-9	A0-3	O	Address bus output terminal.
10	VSS	—	GND.
11-18	A4-11	O	Address bus output terminal.
19	VSS	—	GND.
20-27	A12-19	O	Address bus output terminal.
28	VSS	—	GND.
29	A20	O	Not used.
30	CODEC_ERR	—	
31	$\overline{\text{INT\_VDEC}}$	I	Interrupt signal for AV DECODER IC.
32	$\overline{\text{HD\_INT}}$	I	Interrupt signal from LOADER.
33, 34	P67, 66	I	P67, 66 Port. (Pull up)
35, 36	VSS	—	GND.
37	AK_SCK	O	AK_SCK output pin.
38	CS8415_INT	I	Interrupt signal from CS8415.
39	VCC	—	Power input terminal. EVER +3.3 V.
40-43	D0-3	I/O	Data bus input/output terminal.
44	VSS	—	GND.
45-52	D4-11	I/O	Data bus input/output terminal.
53	VSS	—	GND.
54-57	D12-15	I/O	Data bus input/output terminal.
58	VCC	—	Power input terminal. EVER +3.3 V.
59	TXD0	O	Data output terminal for FL DRIVER IC serial communication control.
60	TXD1	O	Data output terminal for LOADER serial communication control.
61	RXD0	I	Data input terminal for FL DRIVER IC serial communication control.
62	RXD1	I	Data input terminal for LOADER serial communication control.
63	SCK0	O	Clock output terminal for FL DRIVER IC serial communication control.
64	SCK1	O	Clock output terminal for LOADER serial communication control.
65	VSS	—	GND.
66	$\overline{\text{CS VDEC}}$	O	Chip select output terminal for AV DECODER IC.
67, 68	VSS	—	GND.
69	$\overline{\text{CS5}}$	O	Chip select output terminal for SRAM.
70	DREQ1	I	DMA transfer request.
71	CS49326 RESET	O	CS49326 RESET output pin.
72	CS_FR	O	FL DRIVER IC chip select output terminal.
73	$\overline{\text{SYSRST}}$	O	System reset signal output terminal.
74	REMOCON	I	Remote control signal input terminal. (Not connected)
75	USCL	O	I^2C clock output terminal for EERROM, video encoder IC.

Pin No.	Pin Name	I/O	Description
76	USDA	O	I²C data output terminal for EERROM, video encoder IC.
77	UML	O	Data enable signal output terminal for AUDIO DAC IC control.
78	UMC	O	Clock for AUDIO DAC IC control.
79	UMD	O	Data output terminal for AUDIO DAC IC control.
80	$\overline{\text{WDTOVF}}$	O	Watch dog timer overflow signal output terminal.
81	$\overline{\text{RESET}}$	I	Micro processor reset input terminal.
82	NMI	I	Fixed is to "H".
83	$\overline{\text{STBY}}$	I	
84	VCC	—	Power input terminal. EVER +3.3 V.
85	XTAL	I	Crystal oscilator input terminal. 20 MHz.
86	EXTAL	I	
87	VSS	—	GND.
88	fO	O	Not used. (System clock output for external device)
89	VCC	—	Power input terminal. EVER +3.3 V.
90	$\overline{\text{AS}}$	—	Not used. (Address strobe)
91	$\overline{\text{RD}}$	O	Lead signal output terminal for bus control.
92	$\overline{\text{HWR}}$	O	"H" write signal output terminal for bus control.
93	$\overline{\text{LWR}}$	O	"L" write signal output terminal for bus control.
94	$\overline{\text{LAS}}$	O	Lower column address strobe output terminal.
95	PFO	O	Not used. (Bus request acknowlege)
96	HRST	O	Reset signal output terminal for LOADER.
97	CS_SO	O	Serial control data output.
98	CS_SI	I	Serial control data input.
99, 100	VSS	—	GND.
101	CS_SCK	O	Serial clock terminal.
102	TEST MUTE	O	Test terminal. (Pull up)
103	AVCC	—	Power supply input terminal for A/D. EVER +3.3V.
104	VREF	I	Reference voltage input terminal for A/D. EVER +3.3V.
105	F/ST/?	—	Not used.
106	$\overline{\text{WRITE}}$	I	$\overline{\text{WRITE}}$ input pin.
107	RY/$\overline{\text{BY}}$	I	RY/$\overline{\text{BY}}$ input pin.
108	RDY_HIF	I	LOADER READY signal input terminal.
109	SW	I	NT/PAL sw input pin.
110	C2PO	I	C2 Flag inputpin.
111	EMPH	I	Deemphasis monitor input pin.
112	SV2	O	Voltage output for S2 terminal. S1 = 5V S2 = 2.5 V Normally = 0 V.
113	AVSS	—	GND.
114	VSS	—	
115	CS4228 CS	O	CS4228 CS output pin.
116	RGB/YC	I	RGB/YC input pin.
117	CS49326 INT	I	CS49326 INT select input pin.

Pin No.	Pin Name	I/O	Description
118	CS49326 CS	O	CS49326 CS chip select output pin.
119	AMUTE	O	Audio signal (analog audio) output mute control terminal ON = H OFF = L.
120	CHECK	O	Detection of check.
121	A MUTE AC-3	O	Mute output pin.
122	CS8415 CS	O	CS8415 CS output pin.
123, 124	MD0, 1	I	Operation mode control Fixed to L.
125	MD2	I	Operation mode control Fixed to H.
126	$\overline{\text{CAS}}$	O	Column address strobe output pin.
127	TEST	O	Detection of TEST. (Pull down)
128	PG0	O	Detection of PG0.

IC DESCRIPTION-8/10 (L64021D)-1/3

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground.
2-5	SBD_7-4	I/O	SDRAM data bus 7-4.
6	VDD	—	Power. (3.3V)
7-10	SBD_3-0	I/O	SDRAM data bus 3-0.
11	VSS	—	Ground.
12-19	CH_DATA_0-7	I	Channel data bus 0-7.
20	VSS	—	Ground.
21	TOS_N	I	Top of sector.
22, 23	NC	I	Not connected.
24	ERROR_N	I	Error.
25	VDD	—	Power. (3.3V)
26	AVALID_N	I	Audio data valid.
27	VVALID_N	I	Video data valid. (Not connected)
28	DCK	I	Data clock.
29	VREQ_N	O	Video transfer request. (Not connected)
30	AREQ_N	O	Audio transfer request.
31, 32	NC	—	Not connected.
33	VSS	—	Ground.
34-39	A_8-3	I	Address 8-3.
40	VDD	—	Power. (3.3V)
41	NC	—	Not connected.
42	VDD	—	Power. (3.3V)
43-45	A_2-0	I	Address 2-0.
46	VSS	—	Ground.
47-54	D_7-0	I/O	Host data bus 7-0.
55	VSS	—	Ground.
56	SYSCLK	I	System clock.
57	RESET_N	I	Reset.
58	DREQ_N	O	DMA transfer request.
59	INTR_N	O	Interrupt.
60	BUSMODE	I	Busmode. (Pull down)
61	VDD	—	Power. (3.3V)
62	RDY_N	O	Ready. (Not connected)
63	READ_N	I	Read indicator.
64	WRITE_N	I	Write indicator.
65	WAITIWTN_N	I/O	Wait. (Not connected)
66	VSS	—	Ground.
67	AS_N	—	Not connected.
68	CS_N	I	Chip select.
69	VS	O	Vertical synchronization.
70	HS	O	Horizontal synchronization.

Pin No.	Pin Name	I/O	Description
71	VDD	—	Power. (3.3V)
72	OSD_ACTIVE	O	On screen display active. (Not connected)
73, 74	PD_0, 1	O	Pixel data output bus 0, 1.
75	VSS	—	Ground.
76-78	PD_2-4	O	Pixel data output bus 2-4.
79	VDD	—	Power. (3.3V)
80	NC	—	Not connected.
81	VSS	—	Ground.
82-84	PD_5-7	O	Pixel data output bus 5-7.
85	VSS	—	Ground.
86	BLANK	O	Blank. (composite) (Not connected)
87	CREF	O	Chroma reference for pixel data. (Not connected)
88-91	EXT_OSD_0-3	I	External OSD palette selection bus 0-3. (Not connected)
92	NC	O	Not connected.
93	VDD	—	Power. (3.3V)
94	ACLK_441	I	Audio input clock for 44.1kHz*N.
95	ACLK_48	I	Audio input clock for 48kHz*N.
96	ACLK_32	I	Audio input clock for 32kHz*N.
97	VSS	—	Ground.
98	CD_BCLK	I	CD-Serial DAC bit clock.
99	CD_LRCLK	I	CD-Left right clock.
100	CD_ACLK	I	CD-External audio clock. (Not connected)
101	CD_ASDATA	I	CD-Audio serial data line.
102	SPDIF_IN	I	Sony/Philips data interface-input.
103	A_ACLK	O	Output audio clock. (Not connected)
104	VDD	—	Power. (3.3V)
105	BCLK	O	Serial DAC bit clock.
106	LRCLK	O	Serial DAC left right clock.
107	ASDATA	O	Audio serial data line.
108, 109	NC	O	Not connected.
110	VSS	—	Ground.
111	SPDIF_OUT	O	Sony/Philips data interface output.
112	AUDIO_SYNC	O	Audio sync strobe. (Not connected)
113, 114	TM1, TM0	I	Test mode 1, 0. (Pull down)
115	ZTEST	I	Test mode pin. (Pull up)
116	SCAN_TE	I	Scan test mode pin. (Not connected)
117	PREQ_N	O	PCM FIFO request. (Not connected)
118	VDD	—	Power. (3.3V)
119, 120	SBD_15, 14	I/O	SDRAM data bus 15, 14.
121	NC	—	Not connected.
122	SBD_13	I/O	SDRAM data bus 13.

Pin No.	Pin Name	I/O	Description
123	VSS	—	Ground.
124-126	SBD_12-10	I/O	SDRAM data bus 12-10.
127	VDD	—	Power. (3.3V)
128, 129	SBD_9, 8	I/O	SDRAM data bus 9, 8.
130	SCLK	O	SDRAM 81MHz clock.
131	VSS	—	Ground.
132-134	SBA_9-7	O	SDRAM address bus 9-7.
135	VDD	—	Power. (3.3V)
136-138	SBA_6-4	O	SDRAM address bus 6-4.
139	VSS	—	Ground.
140-142	SBA_3-1	O	SDRAM address bus 3-1.
143	VDD	—	Power. (3.3V)
144	SBA_0	O	SDRAM address bus 0.
145, 146	SBA_10, 11	O	SDRAM address bus 10, 11.
147	VSS	—	Ground.
148	SCS1_N	O	Chip select for second DRAM.
149	SCS_N	O	Chip select for SDRAM.
150	SRAS_N	O	SDRAM row address strobe.
151	VDD	—	Power. (3.3V)
152	SCAS_N	O	SDRAM column address strobe.
153	SWE_N	O	SDRAM write enable.
154	SDQM	O	SDRAM control pin.
155	VSS	—	Ground.
156	PLLVDD	—	Power-phase locked loop for SDRAM.
157	NC	—	Not connected.
158	PLLVSS	—	Phase locked-loop ground pin.
159	VDD	—	Power. (3.3V)
160	NC	—	Not connected.

IC DESCRIPTION-9/10 (ADV7170K)-1/1

Pin No.	Pin Name	I/O	Description
1	AVDD	—	Power Supply. (3.3 V)
2-4	P5-7	I	Pixel Port. (Digital video signal in)
5-9	P8-12	I	Pixel Port. (Conneted to Ground.)
10	GND	—	Ground Pin.
11	AVDD	—	Power Supply. (3.3 V)
12-14	P13-15	I	Pixel Port. (Conneted to Ground.)
15	$\overline{\text{HSYNC}}$	I	$\overline{\text{HSYNC}}$ Control Signal.
16	$\overline{\text{VSYNC}}$	I	$\overline{\text{VSYNC}}$ Control Signal.
17	$\overline{\text{BLANK}}$	I	Video Blanking Control Signal. (Pull down)
18	ALSB	I	TTL Address Input. (Pull up)
19	GND	—	Ground Pin.
20	AVDD	—	Power Supply. (3.3 V)
21	GND	—	Ground Pin.
22	$\overline{\text{RESET}}$	I	The input resets the on chip timing generator and sets the ADV7170/ADV7171 into default mode.
23	SCLOCK	I	MPU Port Serial Interface Clock Input
24	SDATA	I/O	MPU Port Serial Data Input/Output
25	COMP	O	Compensation Pin. (Pull up)
26	CHROMA	O	RED/S-Video C/V Analog Output
27	LUMI	O	GREEN/S-Video Y/Y Analog Output
28	AVDD	—	Power Supply. (3.3 V)
29	GND	—	Ground Pin.
30	AVDD	—	Power Supply. (3.3 V)
31	B/COMP/U	O	BLUE/Composite/U Analog Output
32	COMPOSITE	O	PAL/NTSC Composite Video Output.
33	VREF	I/O	Voltage Reference Input for DACs or Voltage Reference Output. (Pull up)
34	RSET	I	A 150 Ω resistor connected from this pin to GND is used to control full-scale amplitudes of the video signals.
35	SCRESET/RTC	I	This pin is subcarrier reset.
36	TTXREQ	O	Teletext Data Request Signal/Defaults to GND when Teletext not Selected. (Pull down)
37	TTX	I	Teletext Data/Defaults to VAA when Teletext not Selected. (Pull up)
38-42	P0-4	I	Pixel Port. (Digital video signal in)
43	GND	—	Ground Pin.
44	CLOCK	I	TTL Clock Input.Requires a stable 27 MHz reference Clock for standard operation.

IC DESCRIPTION-10/10 (CS49326)-1/2

Pin No.	Pin Name	I/O	Description
1	VD1	—	Digital positive supply.
2	DGND1	—	Digital ground.
3	AUDATAA3/XMT958	O	SPDIF transmitter output,digital audio output. (Not connected)
4	$\overline{WR}$	I	Host write storobe. (Pull down)
5	$\overline{RD}$	I	Host parallel output enable. (Pull up)
6	SCDIN	I	SPI serial control data input.
7	SCCLK	I	Serial control port clock.
8-11	GPI07-04	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
12	VD2	—	Digital positive supply.
13	DGND2	—	Digital ground.
14	T/M GPI03	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
15	C GPI02	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
16	B GPI01	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
17	A GPI00	I	These pins can act as general-purpose input pins that can be individually configured and controlled by the DSP. (Pull up)
18	$\overline{CS}$	I	Host parallel chip select,host serial SPI chip select.
19	SCDIO	O	Serial control port data input and output pin.
20	$\overline{ABOOT/INTREQ}$	O	Automatic boot enable,control port interrupt request.
21	$\overline{EXTMEM}$	I	External memory chip select. (Pull up)
22	SDATAN1	I	PCM audio data input number one.
23	VD3	—	Digital positive supply.
24	DGND3	—	Digital ground.
25	SCLKLN1	I	PCM audio input bit clock.
26	LRCLKN1	I	PCM audio input sample rate clock.
27	SDATAN2	I	PCM audio data input number two.
28	SCLKN2	I	PCM audio input bit clock.
29	LRCLKN2	I	PCM audio input sample rate clock.
30	CLKIN	I	Master clock input.(Pull down)
31	CLKSEL	I	DSP clock slect.(Pull down)
32	FILT2	—	Phase-locked loop filter.
33	FILT1	—	Phase-locked loop filter. (Pull down)
34	VA	—	Analog positive supply.
35	AGND	—	Analog ground.
36	$\overline{RESET}$	I	Asynchronous active-low master reset input.
37	DD	—	This pin is reserved. (Pull up)
38	DC	—	This pin is reserved. (Pull up)
39	AUDATA2	O	Digital audio output 2.

Pin No.	Pin Name	I/O	Description
40	AUDATA1	O	Digital audio output 1.
41	AUDATA0	O	Digital audio output 0.
42	LRCLK	I	Audio output sample rate clock.
43	SCLK	I	Audio output bit clock.
44	MCLK	I	Audio master clock. (Pull down)

MECHANICAL PARTS LIST-1/1

1700 USM ·····1
2700 KSM ·····2
3701 EZSM·····3

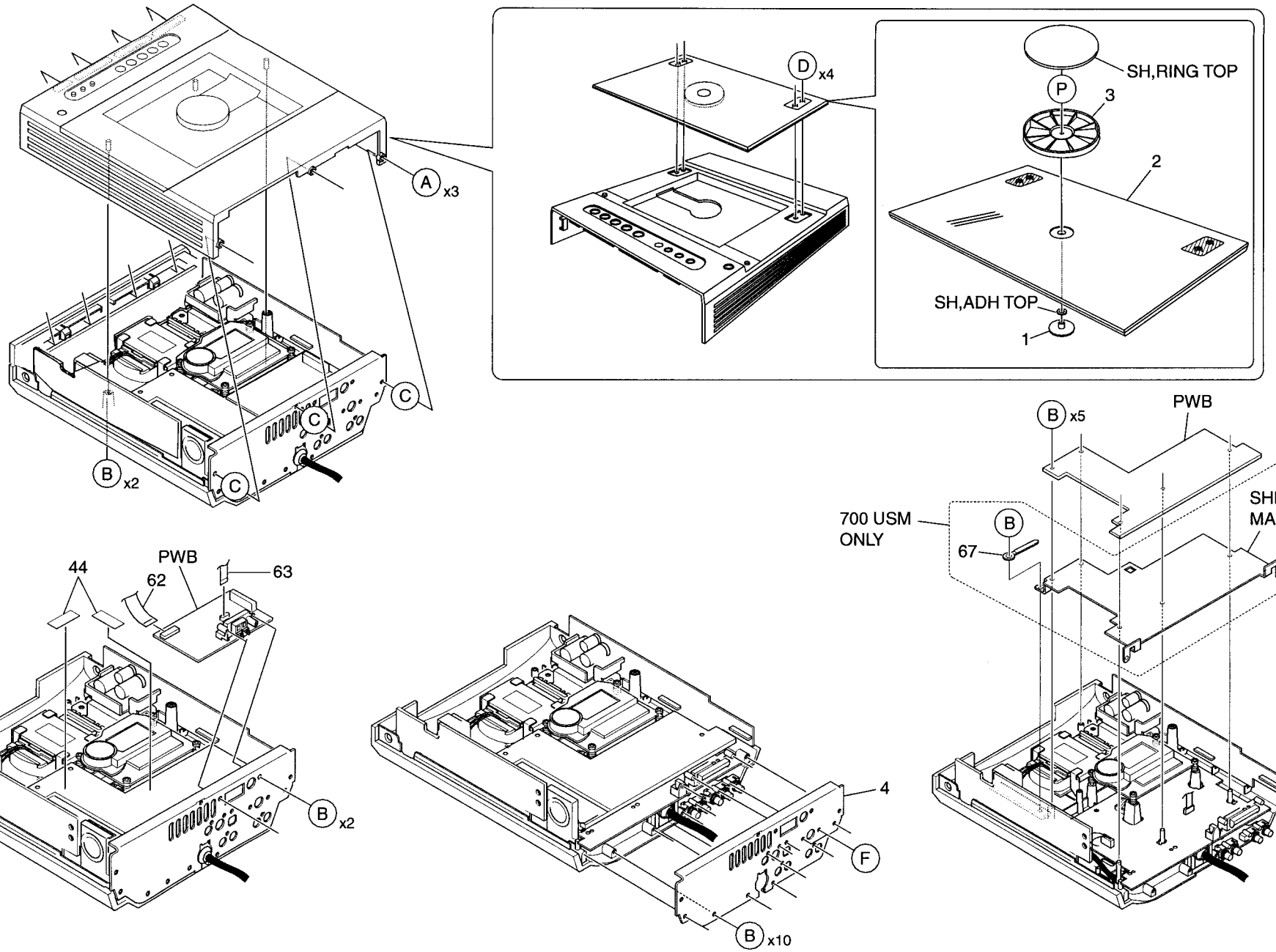
⚠	REF.NO	PART NO.	PARTS-NAME	S COM	QTY 1	2	3
	1	8B-CL2-009-010	CAP, TOP	O	1	1	1
	2	8B-CQA-005-010	WINDOW,TOP(QA)	O	0	1	1
	2	8B-CQA-020-010	WINDOW,TOP(QA) U	O	1	0	0
	3	8B-CL2-045-010	RING,TOP	O	1	1	1
	4	8B-CQA-025-010	PANEL,REAR USM	O	1	0	0
	4	8B-CQA-026-010	PANEL,REAR KSM	O	0	1	0
	4	8B-CQA-027-010	PANEL,REAR EZSM	O	0	0	1
	5	8A-ZGD-607-010	CONN ASSY,9P PH	O	1	1	1
	6	8B-CL5-616-010	FAN,F410T-12LC-200MM	O	0	1	1
	7	8A-CQ0-043-010	CUSH,TOP	X	2	2	2
	8	8B-CQA-002-010	CABI,TOP(QA)	O	0	1	0
	8	8B-CQA-018-010	CABI,TOP(QA) U	O	1	0	0
	8	8B-CQA-033-010	CABI,TOP(QA) EZ	O	0	0	1
	9	8B-CQA-012-110	PLATE,OPE(QA)	O	1	1	1
	10	8B-CL2-014-110	ARM,OPEN L	O	1	1	1
	11	8B-CL2-223-010	HLDR,ARM L	O	1	1	1
	12	8B-CL2-047-010	KEY,PLAY	O	1	1	1
	13	8B-CL2-044-010	KEY,FUN	O	1	1	1
	14	87-A90-036-010	MOT ASSY,RF-300CA-11	O	1	1	1
	15	84-ZG1-267-010	PULLEY,LOAD MO 8	O	1	1	1
	16	8B-CL2-211-110	CHAS,GEAR	O	1	1	1
	17	8B-CL2-214-010	GEAR,PULLY	O	1	1	1
	18	8B-CL2-225-010	BELT,SQ1.2-32.2	O	1	1	1
	19	8B-CL2-215-010	GEAR,MIDDLE	O	1	1	1
	20	8B-CL2-226-010	W-P,6.5-12.8-0.3 B W/O ADH	O	1	1	1
	21	8B-CL2-216-010	GEAR,OUT	O	1	1	1
	22	8B-CL2-013-110	ARM,OPEN R	O	1	1	1
	23	8B-CL2-212-010	HLDR,GEAR	O	1	1	1
	24	8A-ZGD-605-010	FF-CABLE,33P 0.5 110MM	O	1	1	1
	25	8B-CQA-202-010	PLATE,SHLD DVD	X	1	1	1
	26	M8-AZK-J93-070	MECHA,DV32BF2 DVD	O	1	1	1
	27	88-CH6-220-110	CUSHION,CD A	X	4	4	4
	28	8B-CQA-023-010	COVER, PICK DVD	O	1	1	1
	29	8B-CQA-636-010	FF-CABLE,8P 1.0 40MM	O	1	1	1
	30	88-NF9-203-010	BUSHING,CORD-U	O	1	0	0
	30	88-NF9-210-010	BUSHING,CORD-E	O	0	1	1
⚠	31	87-A80-092-010	AC CORD ASSY,E BLK SUN FAI	O	0	0	1
⚠	31	87-A80-143-010	AC CORD ASSY,E BLK	O	0	1	0
⚠	31	87-A80-149-010	AC CORD ASSY,U BLK	O	1	0	0
	32	8B-CL2-230-110	COVER, WIRE(PT)	X	0	1	1
	33	87-064-080-010	WIRE, BINDER	X	1	1	1
	34	8B-CQA-634-010	FF-CABLE,10P 1.0 40MM	O	1	1	1
	35	8B-CL2-201-110	HLDR,PT	O	1	1	1
⚠	36	8B-CQA-651-010	PT,BCQ-A U	O	1	0	0
⚠	36	8B-CQA-652-010	PT,BCQ-A EZ	O	0	1	1
	37	8B-CQA-004-010	WINDOW,FR(QA)	O	1	1	1
	38	8B-CL2-026-010	REFLECTOR,VOL	O	1	1	1
	39	8B-CL2-025-010	KNOB,RTRY VOL	O	1	1	1
	40	8B-CL2-048-010	KEY,POWER	O	1	1	1
	41	8B-CL2-027-010	REFLECTOR,POWER	O	1	1	1

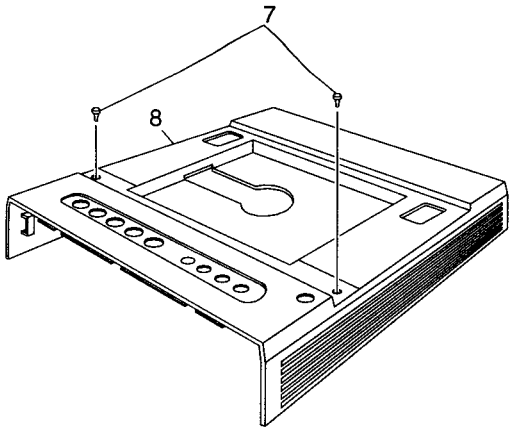
1700 USM ·····1
2700 KSM ·····2
3701 EZSM·····3

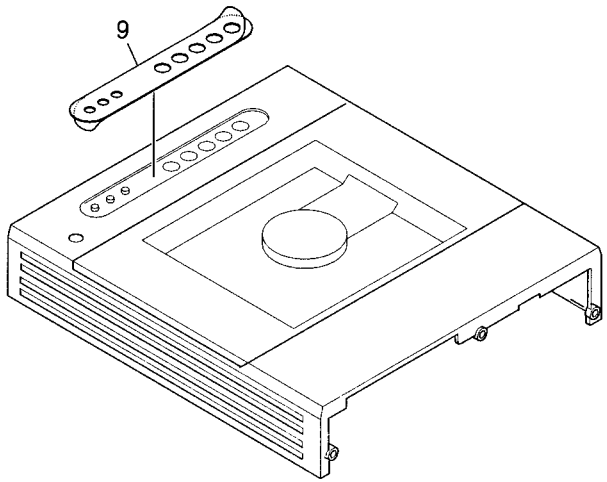
⚠	REF.NO	PART NO.	PARTS-NAME	S COM	QTY 1	2	3
	42	8B-CL2-049-010	KEY,JOG	O	1	1	1
	43	8B-CQA-001-010	CABI,FR(QA)	O	0	1	0
	43	8B-CQA-017-010	CABI,FR(QA) U	O	1	0	0
	43	8B-CQA-021-010	CABI,FR(QA) EZ	O	0	0	1
	44	80-MQ1-209-010	CLOTH,20-7	X	4	4	4
	45	8B-CL2-218-010	HLDR,LCD R	O	1	1	1
	46	8B-CL2-219-010	HLDR,LCD L	O	1	1	1
	47	8B-CQA-003-010	CABI,BOTTOM(QA)	X	0	1	0
	47	8B-CQA-019-010	CABI,BOTTOM(QA) U	O	1	0	0
	47	8B-CQA-022-010	CABI,BOTTOM(QA) EZ	X	0	0	1
	48	8B-CL2-043-110	FOOT,ARCH	O	2	2	2
	49	8B-CL2-205-110	HLDR,FOOT	O	2	2	2
	50	8B-CL2-220-010	GUIDE,LCD	O	1	1	1
	51	8B-CL2-029-010	REFLECTOR,LCD	O	1	1	1
	52	8B-CQA-632-010	FF-CABLE,22P 1.0 140MM	O	1	1	1
	53	88-905-121-110	FF-CABLE, 5P 120MM	O	1	1	1
	54	88-910-201-110	FF-CABLE, 10P 1.25 200MM	O	1	1	1
	55	87-A90-488-010	F-BEAD,12-21-15 E211	O	1	1	1
	56	87-A92-208-010	F-BEAD,20-23-12 HF70SH20X0.7X1	O	1	0	0
	57	8B-CQA-633-010	FF-CABLE,6P 1.0 70MM	O	1	1	1
	58	87-A90-193-010	HLDR,CV100 (B)	O	2	2	2
	59	8B-CQA-635-010	FF-CABLE,7P 1.0 60MM	O	1	1	1
	60	8B-CQA-637-010	FF-CABLE,16P 1.0 150MM	O	1	1	1
	61	A8-BZA-790-030	BZA-7 5M	X	1	1	1
	62	88-912-031-110	FF-CABLE,12P 1.25 30MM	O	1	1	1
	63	88-904-051-110	FF-CABLE,4P 1.25 50MM	O	0	0	1
	64	8B-CL2-207-010	HT-SINK,TR SUB	X	1	1	1
	65	8B-CQA-631-010	FAN,F410T-12L1C- 02-320MM	O	1	1	1
	66	87-099-811-010	PLUG,ADPTR CONV(K)	O	0	1	0
	67	87-064-185-010	HLDR,WIRE PVC 0.5	O	1	1	1
	A	87-067-761-010	TAPPING SCREW, BVT2+3-10	O	3	3	3
	B	87-067-703-010	TAPPING SCREW, BVT2+3-10	O	57	57	57
	C	8A-NF7-251-010	W,3.2-8-0.45	O	3	3	3
	D	8Z-CL1-034-010	S-SCREW,ZCL1	O	8	8	8
	E	87-067-579-010	TAPPING SCREW, BVT2+3-8	O	5	5	5
	F	87-263-074-410	V+2.6-8 BLK	O	2	2	2
	G	87-267-527-310	SCREW, V+1.7-3	O	2	2	2
	H	87-B10-294-010	BVT2+2.6-8	O	4	4	4
	I	87-067-585-010	TAPPING SCREW, BVTT+4-6	O	4	4	4
	J	87-721-095-410	QT2+3-8GLD W/O SLOT	O	2	2	2
	K	8Z-CK5-222-010	S-SCREW,CD+2.6-6 F9	O	4	4	4
	L	88-AR1-217-010	S-SCREW,BFT2+3-8	O	1	1	1
	M	87-067-767-010	BVTT+2.6-6	O	1	1	1
	N	87-067-584-010	BVT2+3-6 W/O SLOT	O	9	9	9
	O	87-751-097-410	VT2+3-12 W/O SLOT	O	2	2	2
	P	87-351-529-310	VT2+1.7-4.0 BLK	O	1	1	1
	Q	87-751-096-410	VT2+3-10 W/O SLOT	O	2	2	2
	R	8B-CQA-205-010	W,6-12.5-0.8 W/O ADH	O	3	3	3

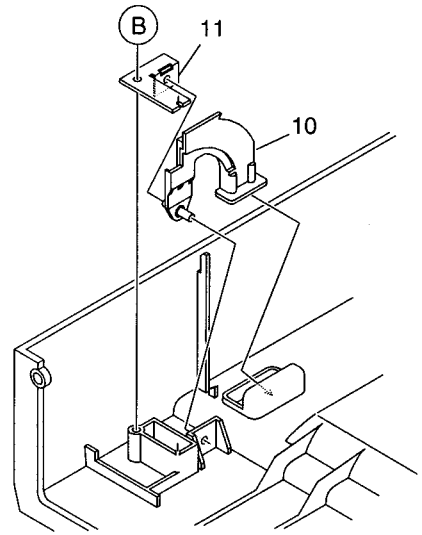
COLOR NAME TABLE

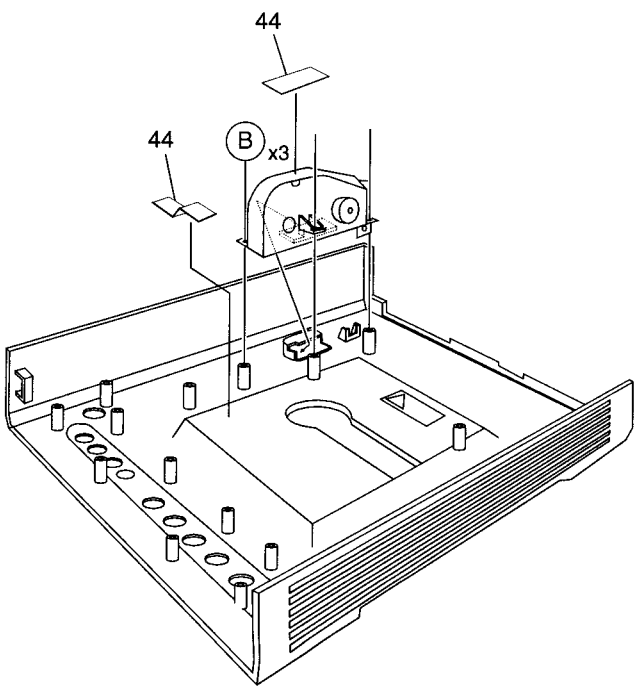
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

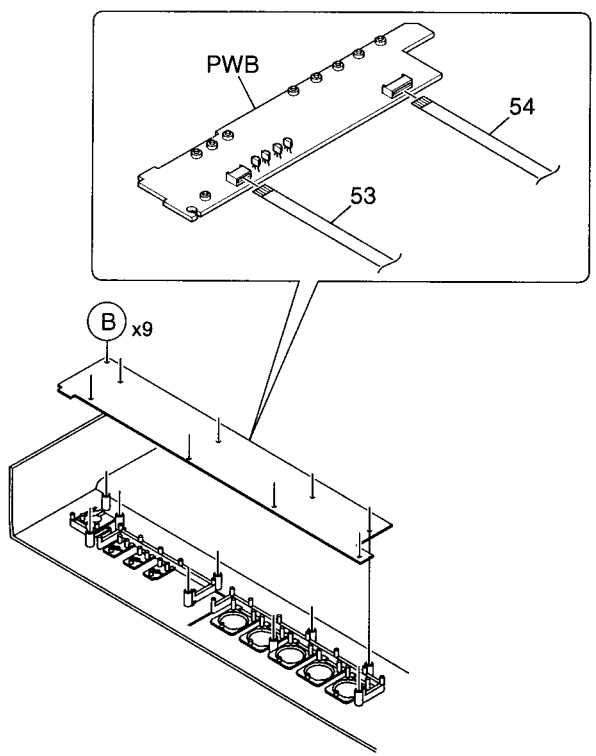

A x3
B x2
C
C
C
D x4
SH,RING TOP
P
3
2
SH,ADH TOP
1
PWB
44
62
63
B x2
4
F
B x10
B x5
PWB
700 USM
ONLY
B
67
SHLD
MAIN

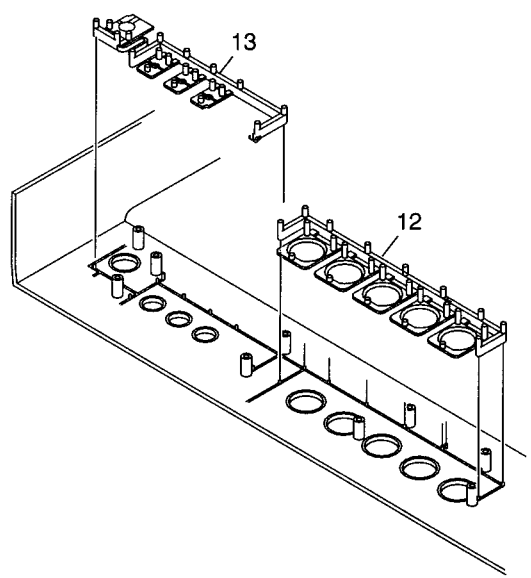

7
8

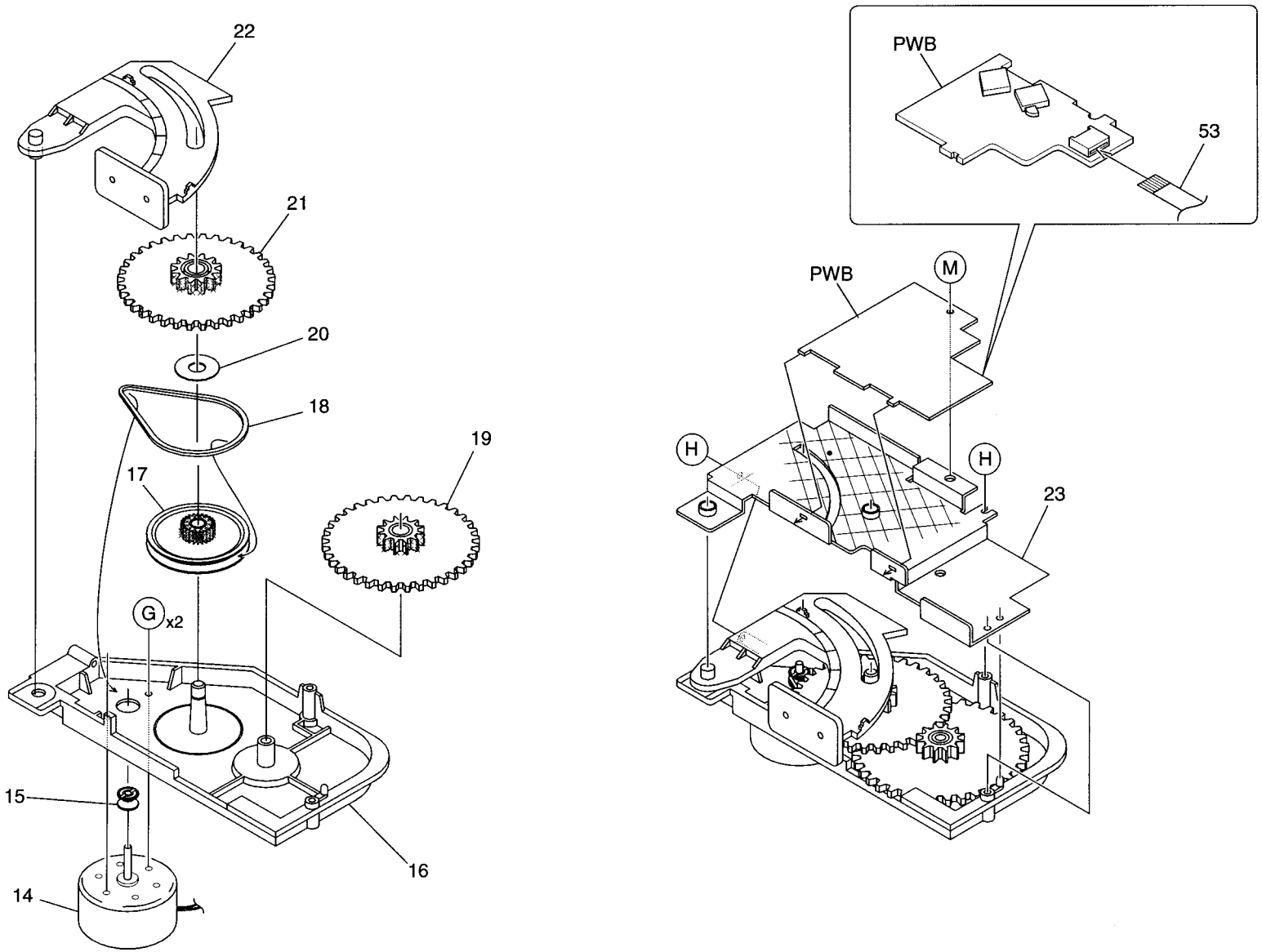

9

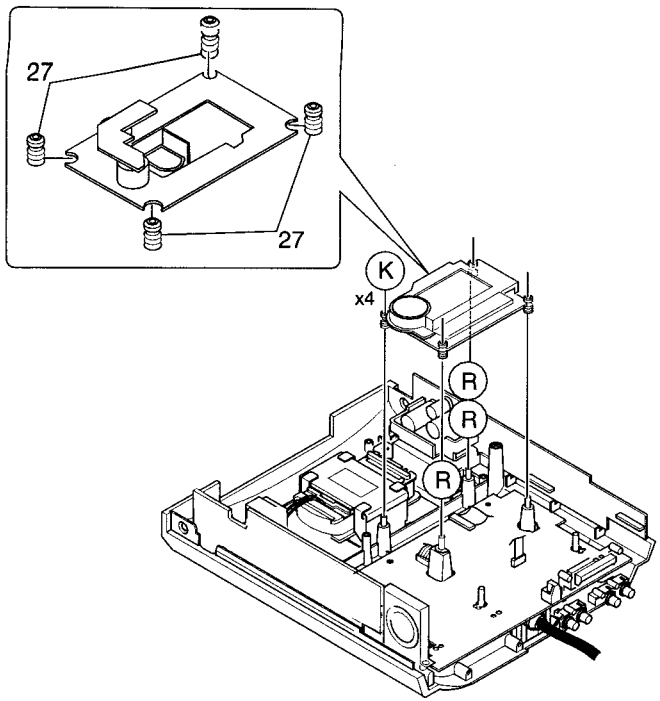

B
11
10

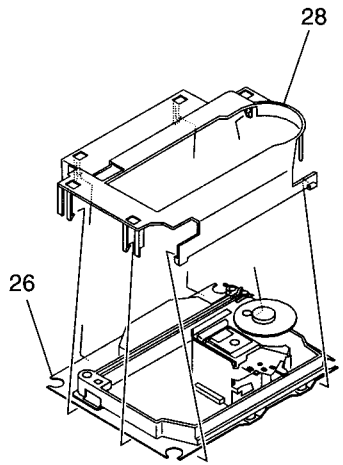

44
44
B
x3
ON

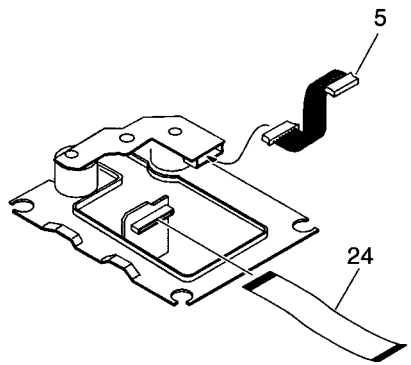

PWB
54
53
B
x9

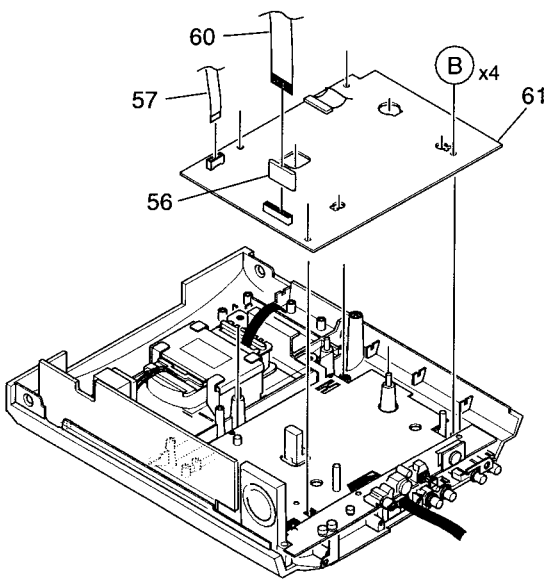

13
12

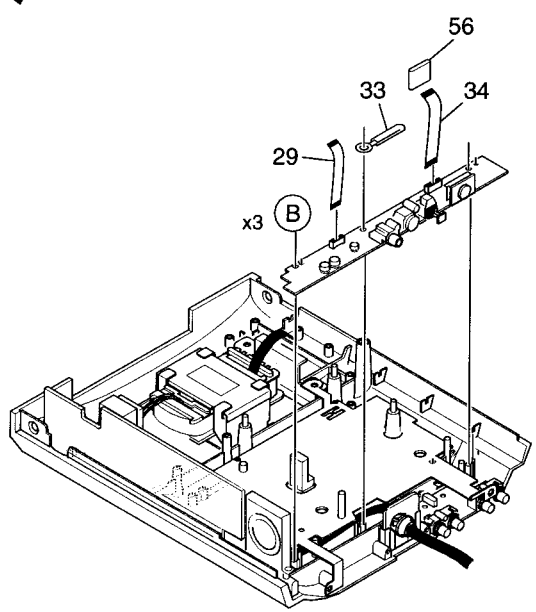

22
21
20
18
19
17
G x2
15
16
14
PWB
53
PWB
M
H
H
23

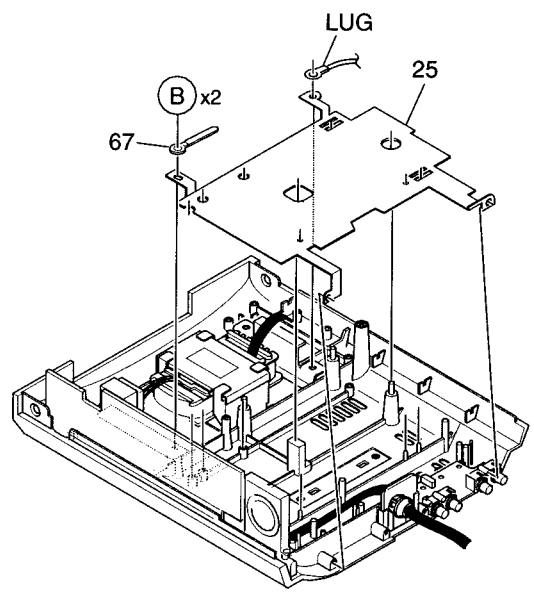

27
27
K
x4
R
R
R

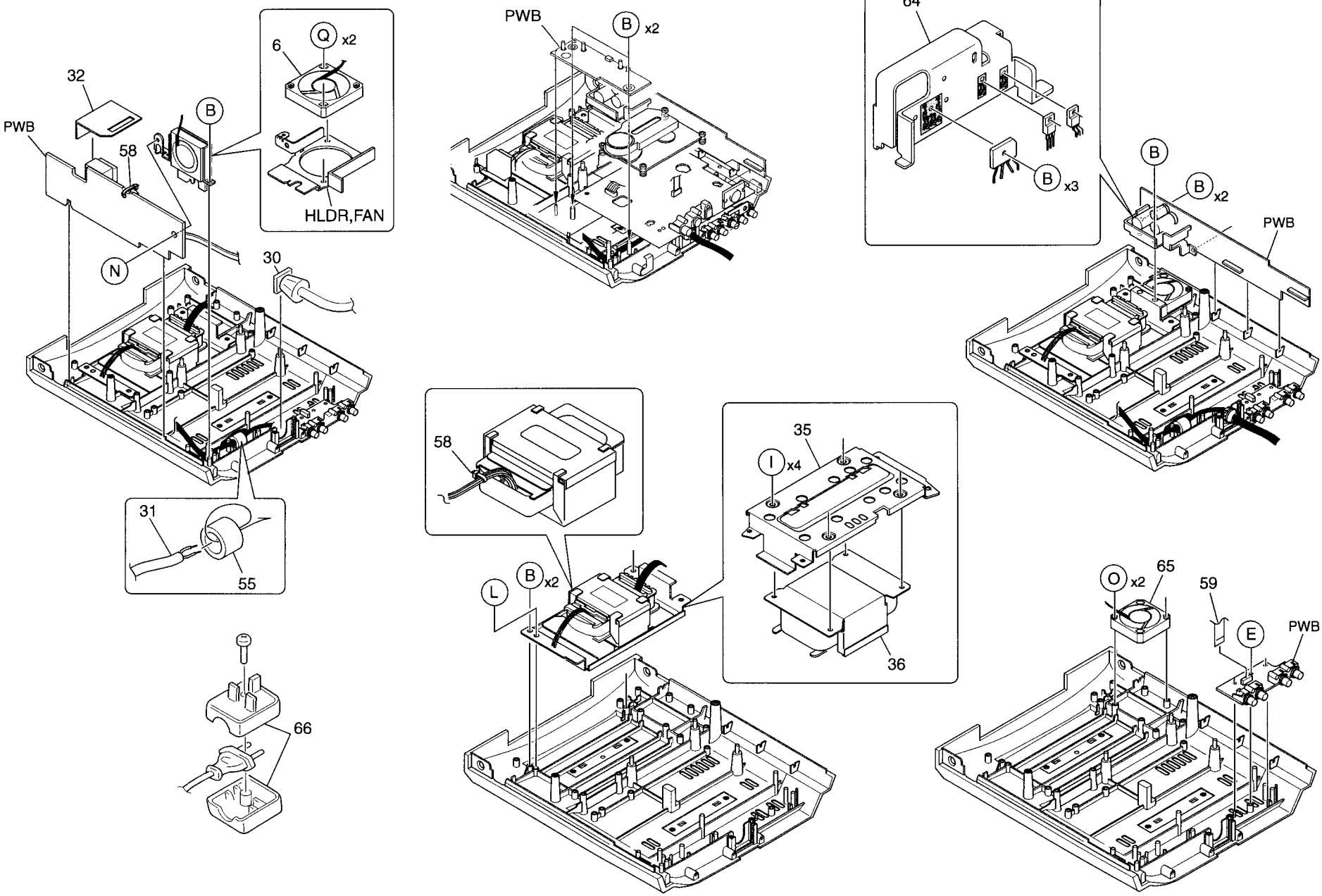

28
26

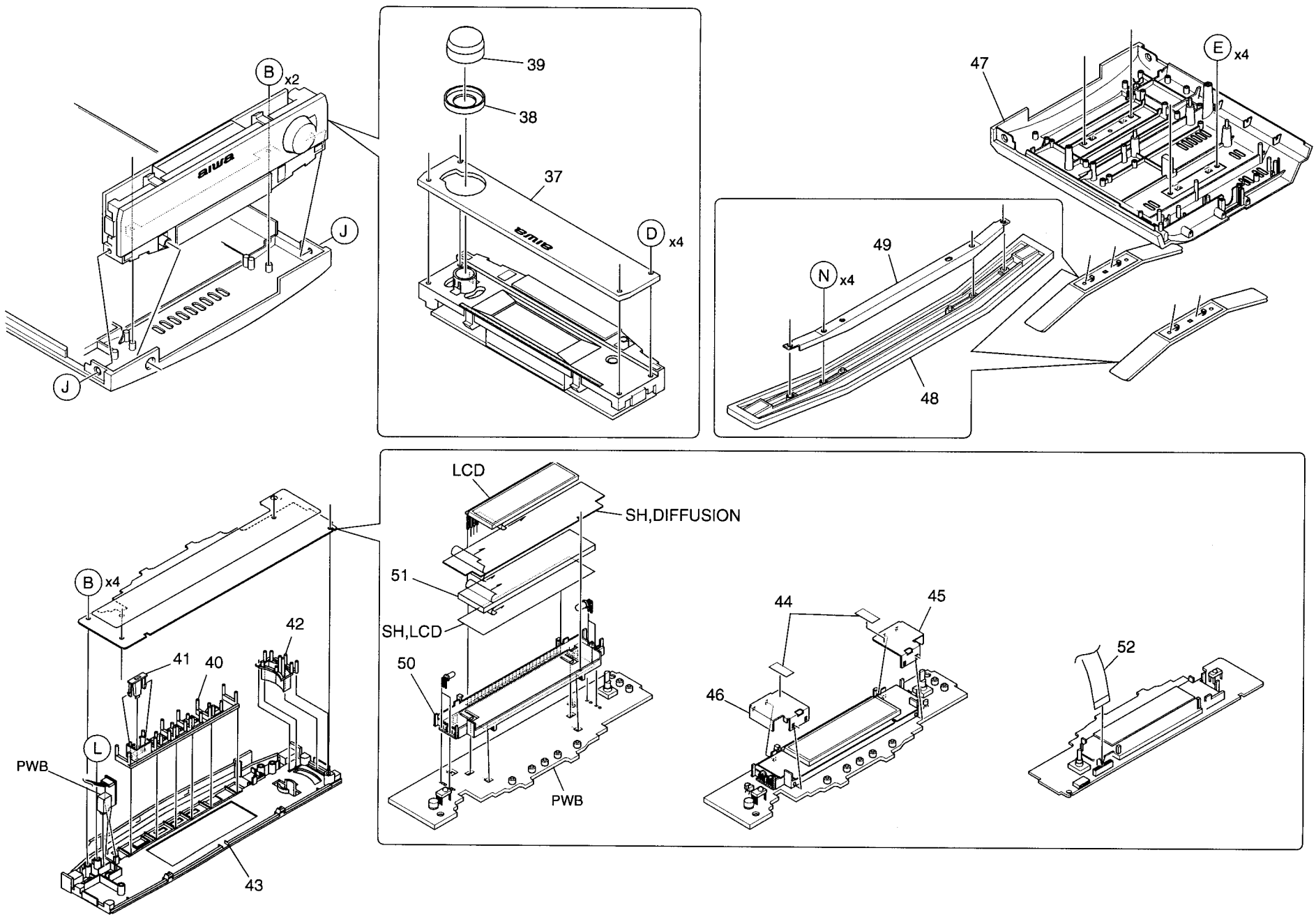

5
24


60
57
B
x4
61
56


56
33
34
29
x3
B


LUG
25
B
x2
67


32
PWB
58
B
Q x2
6
HLDR,FAN
N
30
31
55
66
PWB
B x2
64
B x3
B
B x2
PWB
58
35
I x4
36
L
B x2
O x2
65
59
E
PWB

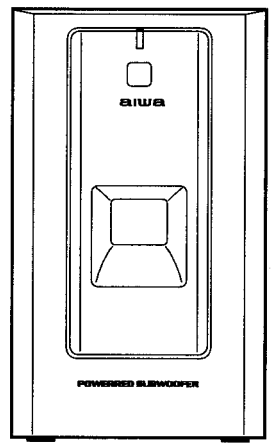

B x2
J
J
39
38
37
D x4
47
E x4
N x4
49
48
B x4
42
41
40
L
PWB
43
LCD
SH,DIFFUSION
51
SH,LCD
50
PWB
44
45
46
52

SPEAKER PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CPP-604-010		SPKR, 80 C
1	8B-CPP-602-010		SPKR, 80 F
1	8B-CPP-606-010		SPKR, 80 R
2	8B-CPP-614-010		CORD,SPKR C
2	8B-CPP-612-010		CORD,SPKR F
2	8B-CPP-616-010		CORD,SPKR R
3	8B-NSX-014-010		FOOT,RUBBER
4	8B-CPP-001-010		GRILLE,FRAME ASSY G
5	8B-NSX-004-010		TERMINAL,

aiwa SERVICE

TS-SLW700 U,K
TS-SLW701 EZ



SERVICE MANUAL

ACTIVE SPEAKER SYSTEM

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" TS-SLW700/701<U,K,EZ>, (S/M Code No. 09-018-449-2T1).

aiwa

S/M Code No. 09-019-449-2R1

REVISION DATA

SPECIFICATIONS

Input
U,K:
From CX-LDV700: DIN 8 pin
EZ:
From CX-LDV701: DIN 8 pin

Output
FRONT: IMP 8 ohms
CENTER: IMP 8 ohms
SURROUND: IMP 8 ohms

Power output
Front:
U:
30 W + 30 W (40 Hz - 20 kHz, T.H.D less than 1%, 8 ohms)
37 W + 37 W (1 kHz, T.H.D 10%, 8 ohms)
EZ,K:
Rated: 30 W + 30 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
Reference: 37 W + 37 W (8 ohms, T.H.D.10%, 1 kHz/DIN 45324)
EZ:
DIN MUSIC POWER: 69 W + 69 W
Rear(Surround):
U:
30 W + 30 W (40 Hz - 20 kHz, T.H.D less than 1%, 8 ohms)
37 W + 37 W (1 kHz, T.H.D 10%, 8 ohms)
EZ,K:
Rated: 30 W + 30 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
Reference: 37 W + 37 W (8 ohms, T.H.D.10%, 1 kHz/DIN 45324)
EZ:
DIN MUSIC POWER: 69 W + 69 W
Center:
U:
30 W (40 Hz - 20 kHz, T.H.D less than 1%, 8 ohms)
37 W (1 kHz, T.H.D 10%, 8 ohms)
EZ,K:
Rated: 30 W (8 ohms, T.H.D.1%, 1 kHz/DIN 45500)
Reference: 37 W (8 ohms, T.H.D.10%, 1 kHz/DIN 45324)
EZ:
DIN MUSIC POWER: 69 W
Subwoofer:
U:
55 W (40 Hz - 200 Hz, T.H.D less than 1%, 6 ohms)
68 W (60 Hz, T.H.D 10%, 6 ohms)
EZ,K:
Rated: 55 W (6 ohms, T.H.D.1%, 60 Hz/DIN 45500)
Reference: 68 W (6 ohms, T.H.D.10%, 60 Hz/DIN 45324)
EZ:
DIN MUSIC POWER: 109 W

Speaker type Bass reflex type,(Magnetic shielded)
Speaker unit 160 mm ($6^3/_8$ in.)
Frepuency response U: 40 Hz – 200 Hz
Power requirements U: AC 120 V, 60 Hz
EZ,K: AC 230 V, 50 Hz
Power consumption U: 170 W
EZ: 200 W
K: 210 W
Dimensions (WxHxD) 220 x 383 x 450 mm
($8^3/_4$ x $15^1/_8$ x $17^3/_4$ in.)
Weight 12 kg (26 lbs 7 oz.)

• Design and specifications are subject to change without notice.

ELECTRICAL MAIN PARTS LIST

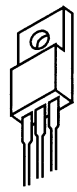
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-754-010		IC,BA4558N-DX
TRANSISTOR			
	87-A30-257-080		C-TR,2SD1360E
	87-A30-075-080		C-TR,2SA1235F
	87-A30-076-080		C-TR,2SC3052F
	89-322-405-080		TR,2SC2240GR
	87-A30-307-010		TR,2SD2619
	87-A30-306-010		TR,2SB1677
	87-A30-636-040		C-TR,SBT5551F
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-268-040		C-TR,2SA1514K(S)
	87-A30-454-040		C-TR,DTA144WKA
	87-A30-097-010		TR,FN 1016
	87-A30-098-010		TR,FP 1016
	87-A30-186-010		FET,2SK3053
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-614-010		TR,2SB1548
	87-A30-613-010		TR,2SD2374
	89-318-155-080		TR,2SC1815GR
	89-110-155-080		TR,2SA1015GR
	87-026-483-080		TR,DTA123JS
	87-026-215-080		TR,DTC114YS
	87-026-235-080		C-TR,DTC114EK
DIODE			
	87-020-465-080		DIODE,1SS133
	87-A40-345-080		ZENER,MTZJ10C
	8Z-YP2-618-010		DIODE,1N5402 LT
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-686-080		ZENER,MTZJ39D
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-116-060		DIODE,RS403L-B-D-51
	87-A40-547-090		DIODE,D5SBA20
	87-017-166-080		ZENER,HZS9B1L
MAIN C.B			
C5	87-010-322-080		C-CAP,S 100P-50 CH
C6	87-010-322-080		C-CAP,S 100P-50 CH
C7	87-012-368-080		C-CAP,S 0.1-50 F
C8	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-010-406-080		CAP, ELECT 22-50
C10	87-010-178-080		CHIP CAP 1000P
C101	87-010-178-080		CHIP CAP 1000P
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-404-080		CAP, ELECT 4.7-50V
C104	87-010-404-080		CAP, ELECT 4.7-50V
C105	87-010-322-080		C-CAP,S 100P-50 CH
C106	87-010-322-080		C-CAP,S 100P-50 CH
C107	87-010-405-080		CAP, ELECT 10-50
C108	87-010-405-080		CAP, ELECT 10-50
C109	87-010-260-080		CAP, ELECT 47-25V
C110	87-010-260-080		CAP, ELECT 47-25V
C111	87-012-140-080		CAP 470P
C112	87-012-140-080		CAP 470P
C115	87-010-186-080		CAP,CHIP 4700P
C116	87-010-186-080		CAP,CHIP 4700P
C119	87-012-368-080		C-CAP,S 0.1-50 F
C120	87-012-368-080		C-CAP,S 0.1-50 F
C121	87-012-368-080		C-CAP,S 0.1-50 F
C122	87-012-368-080		C-CAP,S 0.1-50 F
C123	87-010-186-080		CAP,CHIP 4700P
C124	87-010-101-080		CAP, ELECT 220-16
C125	87-010-101-080		CAP, ELECT 220-16
C131	87-A11-731-080		C-CAP,S 0.47-50 Z F
C132	87-A11-731-080		C-CAP,S 0.47-50 Z F
C133	87-010-405-080		CAP,E 10-50 M 1LL SME
C134	87-010-405-080		CAP,E 10-50 M 1LL SME
C140	87-012-140-080		CAP 470P
C141	87-012-140-080		CAP 470P
C201	87-010-178-080		CHIP CAP 1000P
C202	87-010-178-080		CHIP CAP 1000P
C203	87-010-404-080		CAP, ELECT 4.7-50V
C204	87-010-404-080		CAP, ELECT 4.7-50V
C205	87-010-322-080		C-CAP,S 100P-50 CH
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-405-080		CAP, ELECT 10-50
C208	87-010-405-080		CAP, ELECT 10-50
C209	87-010-260-080		CAP, ELECT 47-25V
C210	87-010-260-080		CAP, ELECT 47-25V
C211	87-012-140-080		CAP 470P
C212	87-012-140-080		CAP 470P
C215	87-010-186-080		CAP,CHIP 4700P
C216	87-010-186-080		CAP,CHIP 4700P
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-012-368-080		C-CAP,S 0.1-50 F
C222	87-012-368-080		C-CAP,S 0.1-50 F
C223	87-010-186-080		CAP,CHIP 4700P
C231	87-A11-731-080		C-CAP,S 0.47-50 Z F
C232	87-A11-731-080		C-CAP,S 0.47-50 Z F
C234	87-010-405-080		CAP,E 10-50 M 1LL SME
C240	87-012-140-080		CAP 470P
C241	87-012-140-080		CAP 470P
C250	87-010-405-080		CAP,E 10-50 M 1LL SME
C301	87-010-178-080		CHIP CAP 1000P
C302	87-010-404-080		CAP, ELECT 4.7-50V
C303	87-010-322-080		C-CAP,S 100P-50 CH
C304	87-010-405-080		CAP, ELECT 10-50
C305	87-010-260-080		CAP, ELECT 47-25V
C306	87-012-140-080		CAP 470P
C308	87-010-186-080		CAP,CHIP 4700P
C310	87-010-186-080		CAP,CHIP 4700P
C311	87-012-368-080		C-CAP,S 0.1-50 F
C312	87-012-368-080		C-CAP,S 0.1-50 F
C318	87-A11-731-080		C-CAP,S 0.47-50 Z F
C320	87-012-140-080		CAP 470P
C330	87-010-405-080		CAP,E 10-50 M 1LL SME
C401	87-010-182-080		C-CAP,S 2200P-50 B
C402	87-010-405-080		CAP, ELECT 10-50V
C403	87-012-156-080		C-CAP,S 220P-50 CH
C404	87-010-406-080		CAP, ELECT 22-50
C406	87-010-384-080		CAP, ELECT 100-25V
C407	87-012-140-080		CAP 470P
C409	87-010-186-080		CAP,CHIP 4700P
C411	87-010-186-080		CAP,CHIP 4700P
C412	87-012-368-080		C-CAP,S 0.1-50 F
C413	87-012-368-080		C-CAP,S 0.1-50 F
C414	87-012-368-080		C-CAP,S 0.1-50 F
C415	87-010-178-080		CHIP CAP 1000P
C416	87-010-178-080		CHIP CAP 1000P
C417	87-016-299-080		CAP,E 10-100 SME
C418	87-016-299-080		CAP,E 10-100 SME
C422	87-A11-731-080		C-CAP,S 0.47-50 Z F
C430	87-012-140-080		CAP 470P
C502	87-010-404-080		CAP, ELECT 4.7-50V
C503	87-010-260-080		CAP, ELECT 47-25V
C504	87-012-140-080		CAP 470P
C505	87-010-263-080		CAP, ELECT 100-10V
C507	87-010-247-080		CAP, ELECT 100-50V
C508	87-010-384-080		CAP, ELECT 100-25V
C509	87-010-384-080		CAP, ELECT 100-25V
C510	87-010-235-080		CAP,E 470-16 SME
C511	87-010-235-080		CAP,E 470-16 SME
C512	87-010-918-010		CAP E 4700 50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C513	87-010-918-010		CAP E 4700 50
C514	87-012-368-080		C-CAP,S 0.1-50 F
C515	87-012-368-080		C-CAP,S 0.1-50 F
C516	87-010-917-000		CAP,E 3300-50 M SMG
C517	87-010-917-000		CAP,E 3300-50 M SMG
C518	87-012-368-080		C-CAP,S 0.1-50 F
C519	87-012-368-080		C-CAP,S 0.1-50 F
C520	87-012-368-080		C-CAP,S 0.1-50 F
C521	87-012-368-080		C-CAP,S 0.1-50 F
C522	87-010-401-080		CAP, ELECT 1-50V
C523	87-010-263-080		CAP, ELECT 100-10V
C524	87-010-260-080		CAP, ELECT 47-25V
C525	87-010-247-080		CAP, ELECT 100-50V
C527	87-010-263-080		CAP, ELECT 100-10V
C528	87-012-140-080		CAP 470P
C529	87-018-209-080		CAP,TC U 0.1-50 Z F
C530	87-018-209-080		CAP,TC U 0.1-50 Z F
C601	87-010-384-080		CAP,E 100-25 M 1LL SME
CN1	87-009-308-010		CONN,2P 51048
CN3	87-009-308-010		CONN,2P 51048
CN4	87-009-038-010		CONN,10P PH
CN7	87-009-033-010		CONNECTOR, 5P
CN9	87-009-031-010		CONNECTOR, 3P
CN10	87-099-043-010		CONN 2P EH
CN11	87-009-030-010		CONNECTOR 2P PH M
CN103	87-009-317-010		CONN,11P 51048
CN104	87-009-317-010		CONN,11P 51048
CNA103	8B-YPA-629-110		CONN ASSY,10P V POWER
CNA105	8B-YPA-628-010		CONN ASSY,2P FAN
CNA110	8B-YPA-622-010		CONN ASSY,2P W-SP
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-003-383-010		COIL,1UH-S
⚠ L401	87-003-383-010		COIL,1UH-S
⚠ PR402	87-A91-969-080		FUSE,4A 125V F 20N<U>
R137	87-A00-257-080		RES,M/F 0.15-1W J
R138	87-A00-257-080		RES,M/F 0.15-1W J
R139	87-A00-257-080		RES,M/F 0.15-1W J
R140	87-A00-257-080		RES,M/F 0.15-1W J
R141	87-A00-915-050		RES,M/F 0.33-2W J
R142	87-A00-915-050		RES,M/F 0.33-2W J
R237	87-A00-257-080		RES,M/F 0.15-1W J
R238	87-A00-257-080		RES,M/F 0.15-1W J
R239	87-A00-257-080		RES,M/F 0.15-1W J
R240	87-A00-257-080		RES,M/F 0.15-1W J
R241	87-A00-915-050		RES,M/F 0.33-2W J
R242	87-A00-915-050		RES,M/F 0.33-2W J
R324	87-A00-257-080		RES,M/F 0.15-1W J
R325	87-A00-257-080		RES,M/F 0.15-1W J
R326	87-A00-915-050		RES,M/F 0.33-2W J
R425	87-A00-262-080		RES,M/F 0.15-2W J
R426	87-A00-262-080		RES,M/F 0.15-2W J
R427	87-A00-262-080		RES,M/F 0.15-2W J
R519	87-A00-851-050		RES,M/F 1-1W J
R531	87-A00-859-050		RES,M/F 5.6-1W J
SP1	8B-YPA-640-010		SPKR,160 6OHM
TH101	87-A91-081-080		C-THMS,100K-K 20P
TH102	87-A91-081-080		C-THMS,100K-K 20P
TH201	87-A91-081-080		C-THMS,100K-K 20P
TH202	87-A91-081-080		C-THMS,100K-K 20P
TH301	87-A91-081-080		C-THMS,100K-K 20P
TH401	87-A91-081-080		C-THMS,100K-K 20P
W1	8A-YP8-666-110		F-CABLE,9P 2 W-JACK
W2	8B-YPA-630-010		F-CABLE,11P MAIN
W4	8B-YPA-633-010		F-CABLE,2P JUMPER
JACK C.B			
CN905	87-099-043-010		CONN,2P V WHT EH
CNA2	8B-YPA-627-010		CONN ASSY,9P INPUT
CNA3	8B-YPA-626-010		CONN ASSY,2P RELAY
CNA102	8B-YPA-620-110		CONN ASSY,10P JACK
FB1	87-008-372-080		FILTER, EMI BL OIRNI
FB2	87-008-372-080		FILTER, EMI BL OIRNI
FB3	87-008-372-080		FILTER, EMI BL OIRNI
FB4	87-008-372-080		FILTER, EMI BL OIRNI
FB5	87-008-372-080		FILTER, EMI BL OIRNI
FB6	87-008-372-080		FILTER, EMI BL OIRNI
FB7	87-008-372-080		FILTER, EMI BL OIRNI
FB8	87-008-372-080		FILTER, EMI BL OIRNI
FB9	87-008-372-080		FILTER, EMI BL OIRNI
J1	87-A61-202-010		JACK,DIN 8 P
J2	87-A61-647-010		JACK,PIN 3P
TM1	86-SP2-641-110		TERMINAL,SPKR 4P DH
PT C.B			
C901	87-A10-480-090		CAP,CER 4700P-250 M E KH
C906	87-010-405-080		CAP,E 10-50 M 1LL SME
CN901	87-099-674-010		CONN,2P VA V
CN902	87-009-030-010		CONNECTOR 2P PH M
CN904	87-009-038-010		CONN,10P PH
⚠ CNA901	8B-YPA-621-010		CONN ASSY,5P AC
⚠ PT901	8B-YPA-611-010		PT,E<K,EZ>
⚠ PT901	8B-YPA-610-010		PT,U<U>
⚠ RY901	87-A91-418-010		RELAY,AC12V G5PA-1-M
LED C.B			
CN109	87-009-346-010		CONN,3P PH H
CNA101	8B-YPA-623-010		CONN ASSY,2P LED
D908	8Z-YP2-617-010		LED,3 GRN

TRANSISTOR ILLUSTRATION

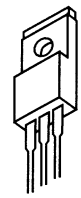
E C B

2SA1015GR
2SC1815GR
2SC2240GR



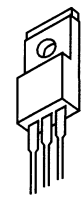
B C E

2SB1548
2SB1677
2SD2374
2SD2619



B C E

FN1016
FP1016

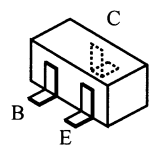


G D S

2SK3053

E C B

DTA123JS
DTC114YS

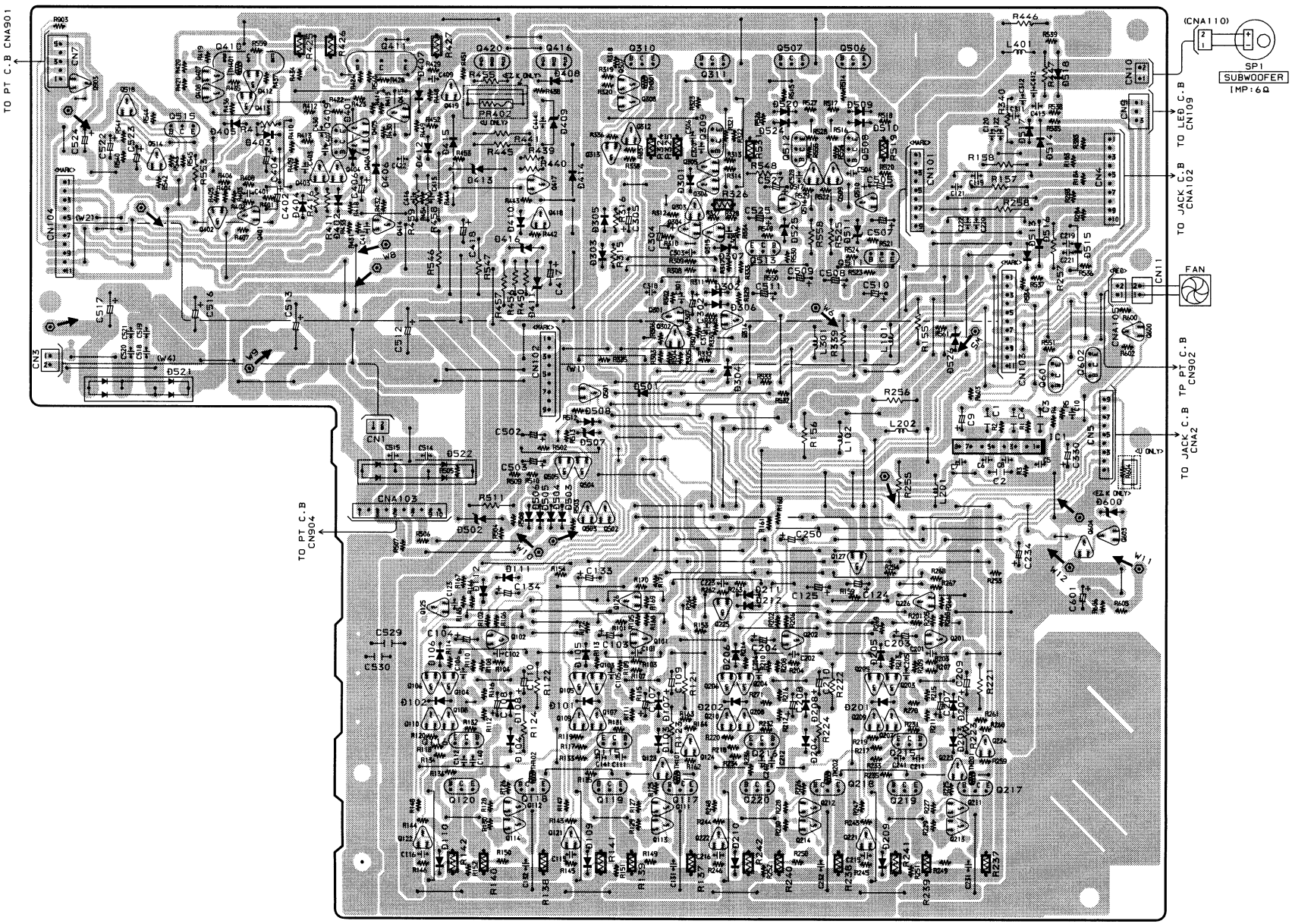


2SA1235F
2SA1514K(S)
2SC3052F
2SD1306E
DTA144WKA
DTC114EK
RT1P 141C
RT1P 144C
SBT5551F

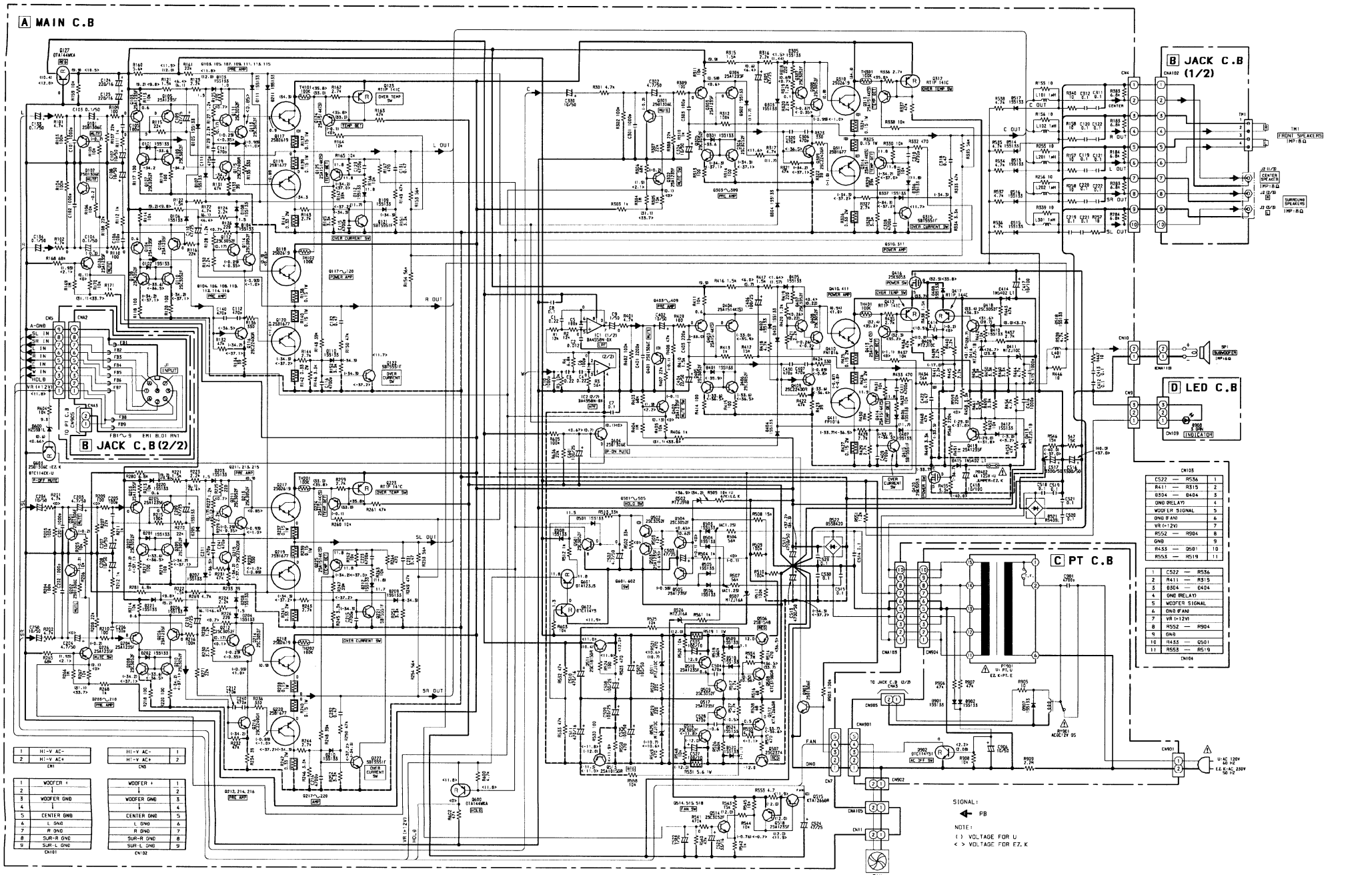
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

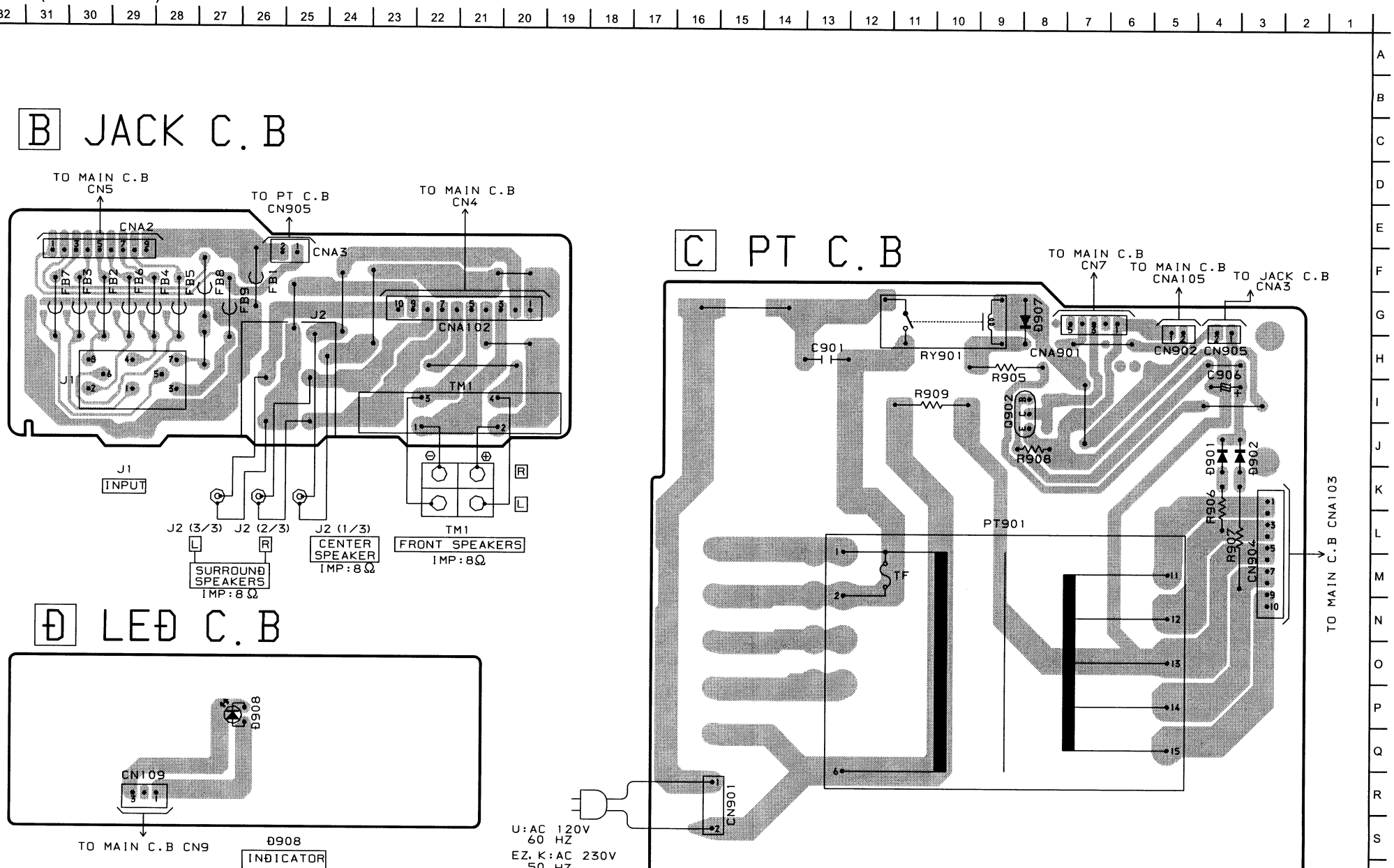
A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B

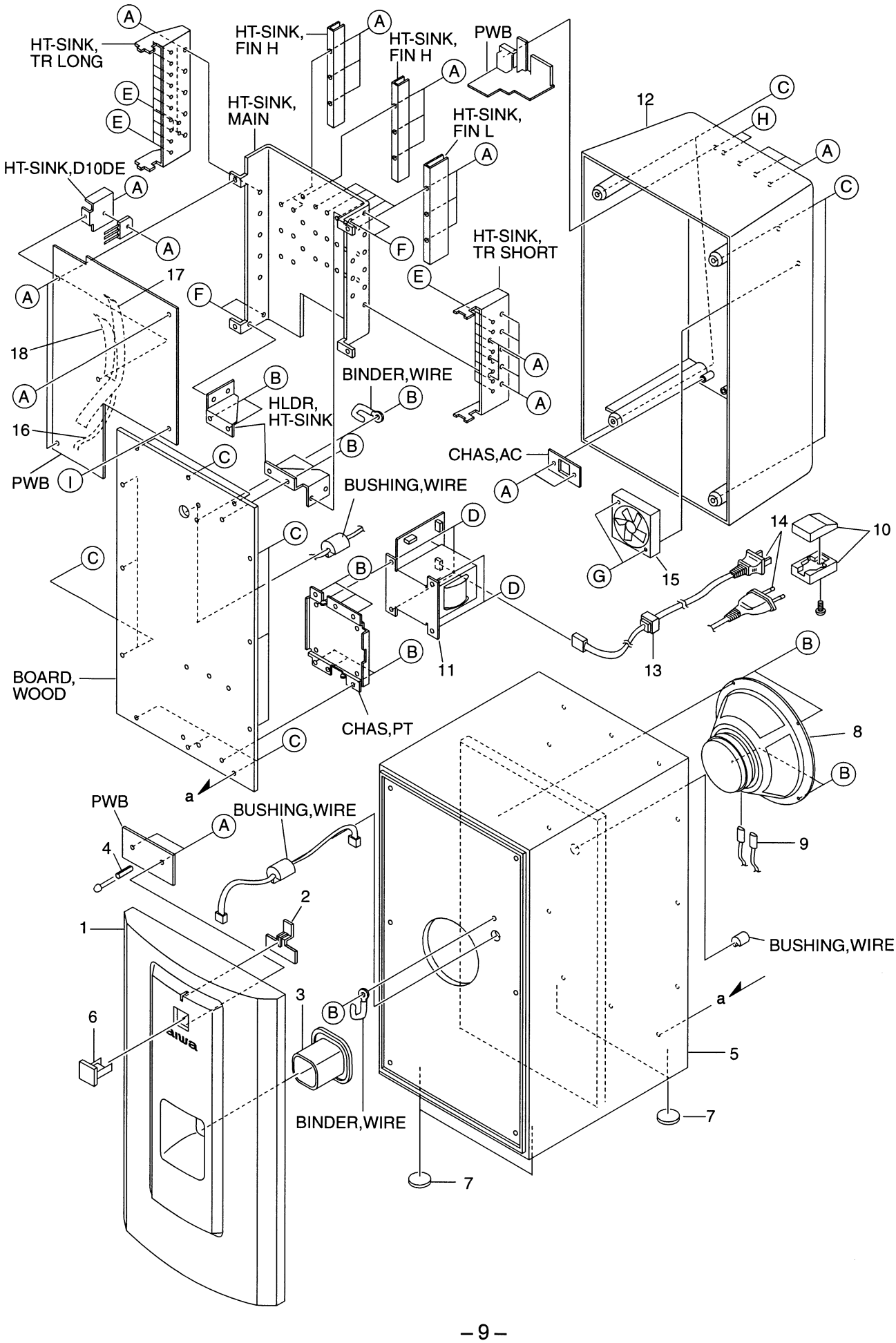


SCHEMATIC DIAGRAM (MAIN / JACK / PT / LED)




B JACK C.B
TO MAIN C.B CN5
TO PT C.B CN905
TO MAIN C.B CN4
CNA2
CNA3
CNA102
FB7
FB3
FB2
FB6
FB4
FB5
FB8
FB9
FB1
J2
J1
TM1
J1 INPUT
J2 (3/3) J2 (2/3) J2 (1/3)
L
R
SURROUND SPEAKERS IMP:8Ω
CENTER SPEAKER IMP:8Ω
TM1 FRONT SPEAKERS IMP:8Ω
R
L
C PT C.B
TO MAIN C.B CN7
TO MAIN C.B CNA105
TO JACK C.B CNA3
C901
RY901
D907
CNA901
CN902
CN905
R905
C906
R909
D902
R908
D901
D903
R906
R907
CN904
PT901
TF
TO MAIN C.B CNA103
CN901
U:AC 120V 60 HZ
EZ, K:AC 230V 50 HZ
D LED C.B
D908
CN109
TO MAIN C.B CN9
D908
INDICATOR

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-YPA-003-010		CABI,FRONT<U,K>
1	8B-YPA-013-010		CABI,FRONT TS-LW701<EZ>
2	8B-YP9-005-010		WINDOW,LED
3	8B-YP9-201-010		RING,DUCT
4	8B-YP6-210-010		HLDR,LED L12
5	8B-YPA-004-010		CABI,WOOD BOX<U,K>
5	8B-YPA-010-010		CABI,WOOD BOX E1<EZ>
6	8B-YPA-002-010		COVER, SW
7	8B-YP9-208-010		FOOT,BOX
8	8B-YPA-640-010		SPKR,160 6OHM
9	8B-YPA-622-010		CONN ASSY,2P W-SP
⚠ 10	87-099-811-010		PLUG,ADPTR CONV(K)<K>
⚠ 11	8B-YPA-610-010		PT,U<U>
⚠ 11	8B-YPA-611-010		PT,E<EXCEPT U>
12	8B-YPA-001-010		CABI,REAR
13	87-085-207-010		BUSHING,CORD
⚠ 14	8B-YP4-619-010		AC CORD ASSY,U<U>
⚠ 14	8A-YPA-621-010		181-G2060C,AC CORD ASSY E<EXP U>
15	87-A90-796-010		FAN,F614R-12MC-19-240MM<U>
15	8B-NF4-633-010		FAN,AD0612DS-D70GL<EXP U>
16	8B-YPA-633-010		F-CABLE,2P JUMPER
17	8B-YPA-630-010		F-CABLE,11P MAIN
18	8A-YP8-666-110		F-CABLE,9P 2 W-JACK
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	8B-YP5-208-010		UT1+3.5-12
C	8B-YP9-209-010		UT1+3.5-22
D	87-078-019-010		S-SCREW,IT+4-6
E	87-067-579-010		TAPPING SCREW, BVT2+3-8
F	87-067-689-010		TAPPING SCREW, BVTT+3-8
G	87-B10-190-010		BVT2+3-22 W/O SLOT
H	87-263-074-410		V+2.6-8 BLK
I	87-NF4-224-010		S-SCREW,IT3B+3-8 CU

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-YPA-003-010		CABI,FRONT<U,K>
2	8B-YPA-013-010		CABI,FRONT TS-LW701<EZ>
3	8B-YPA-001-010		CABI,REAR
5	8B-YPA-004-010		CABI,WOOD BOX<U,K>
6	8B-YPA-010-010		CABI,WOOD BOX E1<EZ>
7	8B-YPA-002-010		COVER, SW
8	8B-YP9-005-010		WINDOW,LED